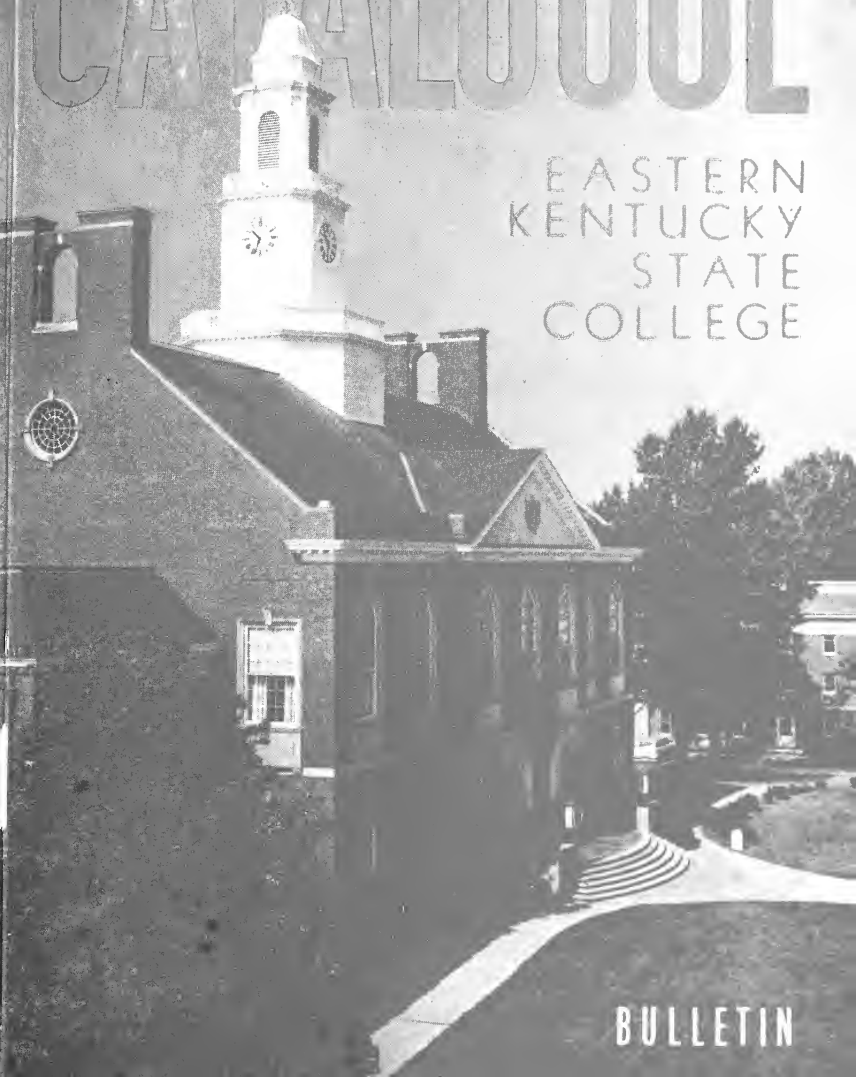


1964-65

CATALOGUE

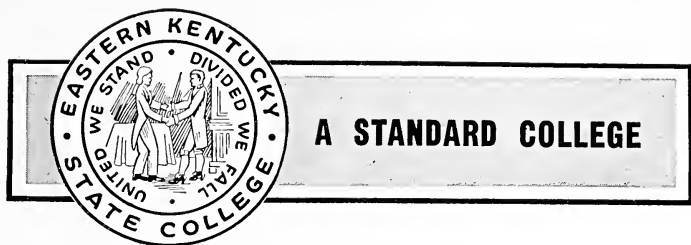
EASTERN
KENTUCKY
STATE
COLLEGE



BULLETIN

Digitized by the Internet Archive
in 2011 with funding from
LYRASIS Members and Sloan Foundation

<http://www.archive.org/details/catalog19646555east>



MEMBER OF

Kentucky Association of Colleges, Secondary and Elementary
Schools

American Association of Colleges for Teacher Education

Association of State Colleges and Universities

• National Business Teacher Training Institutions

Association for Field Services in Teacher Education

American Association of University Women

American Council on Education

ACCREDITED BY

Southern Association of Colleges and Secondary Schools

National Council for Accreditation of Teacher Education

National Association of Schools of Music

BULLETIN

Vol. 55

July, 1964

No. 1

PUBLISHED SEVEN TIMES A YEAR BY THE EASTERN KENTUCKY
STATE COLLEGE in January, February, March, April, July, August,
and November, and entered at the Post Office in Richmond, Kentucky,
as second-class matter.

TABLE OF CONTENTS

PART ONE—About Eastern Kentucky State College.....	7
Introduction.....	9
History.....	10
Purpose.....	11
The Campus.....	13
PART TWO—Information for the Student	23
Expenses and Living Accommodations	25
Registration Fees.....	25
Special Fees.....	25
Living Expenses.....	27
Scholarships.....	28
Loans.....	28
Student Employment.....	29
Other (Veterans).....	29
Health Service.....	30
Guidance and Counseling Service.....	30
Athletics and Recreation.....	31
Social Activities.....	31
Student Organizations.....	31
Student Publications.....	32
Cultural Activities.....	32
Student Awards.....	33
Placement Office.....	34
The Alumni Association.....	34
PART THREE—General Academic Information	39
Admission to the College.....	41
Student Programs and Regulations.....	42
PART FOUR—Curricula	47
Teacher Education	49
Degrees Without Right of Certification.....	52
Pre-Professional Curricula.....	52
Laboratory School.....	58
Extension Division.....	59
Graduate Division.....	61
Areas of Concentration.....	65
PART FIVE—Courses of Instruction	67
PART SIX—Official Directory.....	207
Board of Regents	209
Administration	211
Faculty	212
Administrative Staff	232
Chairmen, Divisions of Instruction.....	234
Heads, Departments of Instruction.....	235
Administrative Committees	236
Instruction Committees	237
INDEX.....	239

CALENDAR 1964

JANUARY

SMTWTFSS

5678910111213141516171819202122232425262728293031

FEBRUARY

SMTWTFSS

234567891011121314151617181920212223242526272829

MARCH

SMTWTFSS

8910111213141516171819202122232425262728293031

APRIL

SMTWTFSS

56789101112131415161718192021222324252627282930

MAY

SMTWTFSS

345678910111213141516171819202122232425262728293031

JUNE

SMTWTFSS

789101112131415161718192021222324252627282930

JULY

SMTWTFSS

5678910111213141516171819202122232425262728293031

AUGUST

SMTWTFSS

2345678910111213141516171819202122232425262728293031

SEPTEMBER

SMTWTFSS

6789101112131415161718192021222324252627282930

OCTOBER

SMTWTFSS

45678910111213141516171819202122232425262728293031

NOVEMBER

SMTWTFSS

89101112131415161718192021222324252627282930

DECEMBER

SMTWTFSS

678910111213141516171819202122232425262728293031

CALENDAR 1965

JANUARY

SMTWTFSS

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

31

1

2

FEBRUARY

SMTWTFSS

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

1

2

3

4

5

6

MARCH

SMTWTFSS

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

31

1

2

3

4

5

6

APRIL

SMTWTFSS

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

1

2

3

MAY

SMTWTFSS

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

31

1

JUNE

SMTWTFSS

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

1

2

3

4

5

JULY

SMTWTFSS

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

31

1

2

3

AUGUST

SMTWTFSS

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

31

1

2

3

4

5

6

7

SEPTEMBER

SMTWTFSS

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

1

2

3

4

OCTOBER

SMTWTFSS

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

31

1

2

NOVEMBER

SMTWTFSS

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

1

2

3

4

5

6

DECEMBER

SMTWTFSS

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

31

1

2

3

4

1964 – CALENDAR – 1965

FIRST SEMESTER

September 11	Friday	10:00 a.m.	Assembly of Faculty, Administrative Staff, and other employees.
September 11	Friday	2:00 p.m.	Faculty Meeting.
September 11	Friday	6:30 p.m.	Faculty Dinner.
September 12	Saturday	8:00 a.m.	In-service education students who enroll for Saturday and evening classes will register.
September 14	Monday	8:00 a.m.	Classification tests for first semester freshmen.
September 15	Tuesday	8:00 a.m.	Classification tests for first semester freshmen.
September 16	Wednesday	7:30 a.m.	Registration of freshmen.
September 17	Thursday	7:30 a.m.	Registration of sophomores.
September 18	Friday	7:00 a.m.	Registration of juniors and seniors.
September 19	Saturday	8:00 a.m.	Registration of graduate students.
September 21	Monday	8:00 a.m.	Classes begin.
September 28	Monday		Last day to enter a course for credit with reduced load.
October 5	Monday		Last day on which a course may be dropped without a grade.
November 23	Monday	10:00 a.m.	Mid-semester reports to Registrar.
November 25	Wednesday	Noon	School closes for Thanksgiving holiday.
November 30	Monday	8:00 a.m.	Class work resumes.
December 19	Saturday	4:00 p.m.	Christmas holiday begins.
January 4	Monday	8:00 a.m.	Class work resumes.
January 26	Tuesday	5:00 p.m.	First semester closes.
January 28	Thursday	9:00 a.m.	Grades to Registrar.

SECOND SEMESTER

February 1	Monday	7:00 a.m.	Registration of freshmen and sophomores.
February 2	Tuesday	7:00 a.m.	Registration of juniors, seniors, and graduate students.
February 3	Wednesday	8:00 a.m.	Classes begin.
February 6	Saturday	8:00 a.m.	In-service education students who enroll for Saturday and evening classes will register.
February 11	Thursday		Last day to enter a class for credit with reduced load.
February 23	Tuesday		Last day on which a course may be dropped without a grade.
April 2	Friday	9:00 a.m.	Mid-semester reports to Registrar.
April 5-10			Spring vacation.
May 30	Sunday	2:30 p.m.	Baccalaureate service.
June 2	Wednesday	10:00 a.m.	Commencement.
June 4	Friday	5:00 p.m.	Second semester closes.

SUMMER SCHOOL—1965

June 14	Monday	7:00 a.m.	Summer school begins.
June 15	Tuesday		Classes begin.
June 15	Tuesday		Last day to register for a full load.
June 18	Friday		Last day to enter a course for credit with reduced load.
August 5	Thursday	7:30 p.m.	Commencement.
August 6	Friday	5:00 p.m.	Summer school closes.



**OFFICIAL
CATALOGUE
1964-65**

EASTERN KENTUCKY STATE COLLEGE



About Eastern Kentucky State College

Introduction	9
History	10
Purpose	11
The Campus	13

PART ONE

EASTERN . . . Dedicated to Serving Kentucky Since 1906

INTRODUCTION

Eastern Kentucky State College is a coeducational public institution of higher education offering general and liberal arts programs, and professional training in education and other fields at the undergraduate and graduate levels. Located in Richmond, Madison County, Kentucky, the campus embraces approximately 325 acres of gently-rolling bluegrass slopes. The main campus centers around a replica of an ancient Greek amphitheater seating 2,500 persons. The natural beauty of the area is enhanced by an abundance of trees and shrubs. The college is housed in 39 buildings, with further expansion under way.

Richmond is on the main line of the L & N Railroad, 112 miles south of Cincinnati, Ohio. Situated twenty-six miles southeast of Lexington, Kentucky, Richmond is conveniently reached by automobile over U. S. Route 25 (Dixie Highway) from Northern Kentucky and Cincinnati to the North and from Southeastern Kentucky to the South. Richmond is also served by U. S. Route 227 and Kentucky Route 52. Combinations of major highways in the state with these highways make Richmond easily accessible from Eastern and Northeastern Kentucky as well as the Bluegrass and Central Kentucky areas and the Metropolitan area of Louisville.

Completion of Interstate Highways, I-64 and I-75, and the Eastern Kentucky Turnpike, will provide greater convenience in automobile travel to Richmond, since the city is located near the convergence of these three arterial highways.

Richmond, the county seat of Madison County, is an expanding community of approximately 13,000 population. Served by fine churches representing most Christian faiths, the community provides an excellent environment for the college student.

In and around Richmond are many areas of historic and scenic interest. Boonesboro, birthplace of Kentucky, is located twelve miles to the north. Many other historical places are within easy driving distance. Scenic and recreational areas surround this section of the state.

HISTORY

The General Assembly of 1906 enacted legislation establishing the Eastern Kentucky State Normal School. Governor J. C. W. Beckham signed the bill into law on March 21, 1906, and on May 7 of that year, the Normal School Commission, meeting in Louisville, selected the campus of old Central University in Richmond, Kentucky, as the site of the new school. On June 2, 1906, Ruric Nevel Roark was chosen President of the Normal school and the training of teachers was initiated.

In 1922, Eastern became a four-year institution known as the Eastern Kentucky State Normal School and Teachers College. The first degrees were awarded by this institution in 1925. In 1928, the College was accredited by the Southern Association of Colleges and Secondary Schools. In 1930, the General Assembly renamed the school as the Eastern Kentucky State Teachers College.

In 1935, a graduate program was approved at Eastern, leading to the Master of Arts in Education. In 1948, the General Assembly removed the word "Teachers" from the name of the College and granted the College the right to award non-professional degrees. During this period of time, Eastern Kentucky State College has increased rapidly in size and stature. Beginning with a few students engaged in short review and certificate courses, the College today serves thousands of Kentucky's young men and women by offering a curriculum leading to the Bachelor of Arts, or Bachelor of Science degree in teacher education, or in general or professional areas. Further, a graduate program leading to the Master of Arts degree in Education and an additional year's graduate work beyond the Master's degree is offered for those seeking additional training for leadership positions in the field of education.

Ever-mindful of the purpose of its founding, Eastern continues to recognize its chief function as that of preparing excellent teachers for the elementary and secondary schools of the Commonwealth. However, a strong liberal arts curriculum leading to appropriate degrees, together with pre-professional courses in several areas, enable Eastern to serve the Commonwealth as a general college.

The College has a broad program on offerings in the field of Business Education with a curriculum offering thorough training in secretarial practice, accounting methods and materials, and general business.

PURPOSE

It is the purpose of Eastern Kentucky State College to provide for youth those intellectual and cultural pursuits which will develop in them habits of scholarship and intellectual curiosity; which will provide for them a deep understanding of American democracy and their role in maintaining its strength and vitality; which will imbue them with an understanding of man and his aspirations; and which will enable them to communicate effectively and efficiently.

With this worthy purpose as a basis, Eastern Kentucky State College has detailed its specific aims:

Eastern Kentucky State College has a historic mission in the training of teachers for the classrooms of America.

The purpose of the institution can be met only through a broad and liberal education of all students.

As Eastern Kentucky State College seeks to serve more adequately, it has developed sound curricula to provide instruction in general and specialized fields in order that students may be prepared for professional, technical, and industrial careers.

Eastern Kentucky State College seeks to serve the citizens of the state through the extension of aspects of the college program into other areas and communities. Extension and correspondence courses are offered as the need is evidenced. Lectures and consultant services are available upon request. Concert tours by the various organizations of the Music Department, art exhibits, and dramatic performances round out the cultural service of the institution.

Eastern Kentucky State College attempts to meet these purposes and aims through constant attention to see that the curriculum is such as to give students the basic concepts in their fields of knowledge and the special techniques needed for the mastery of their field. Eastern aspires to motivate each student through superior teaching and counseling, to the end that students will find at Eastern an intellectually-demanding college experience as well as opportunities for social development.



THE CAMPUS

The Eastern campus is endowed with great natural beauty, enhanced by the thoughtful selection and placement of trees and shrubs. The various academic buildings, dormitories, and other buildings are centered around the amphitheater and reflect several styles of design. The map on the inside of the back cover shows the lay-out of the campus. Following are brief descriptions of the major buildings and facilities at Eastern Kentucky State College.

ACADEMIC BUILDINGS

ALUMNI COLISEUM

The Alumni Coliseum houses facilities for physical education, general college classrooms and a basketball playing arena. The physical education facilities include auxiliary gymnasiums, special purpose rooms, locker and shower spaces and an indoor and an outdoor olympic size swimming pool. General classrooms are included for general college use. Spectator seating will accommodate approximately 6,500 persons for basketball games and approximately 7,500 persons for convocations, lectures, and similar events. The building will provide office space for Physical Education faculty, Department of Athletics staff and R.O.T.C. staff.

NEW CLASSROOM BUILDING

The New Classroom Building is currently under construction and is scheduled for completion by September, 1964. This building will house the Department of English, the Department of Commerce, and the Graduate Program of the College. The four story building will be completely air-conditioned and will provide teaching stations for 2,200 students. It will contain two large lecture rooms and provide offices for members of the faculties of these departments. Of striking design, the exterior of the building will be faced with cut limestone and will provide a unifying concept in the heart of the academic campus.

CAMMACK BUILDING

The James W. Cammack Building was named to honor an appointee to the first Board of Regents of the College in 1906. In the summer of 1961, this building was completely renovated and is currently used to house the Art Department, Foreign Language Department, and other departments of the College. The exhibit room of the Art Department is located on the first floor and a modern, well-equipped language laboratory on the second floor is used by the Foreign Language Department.

COATES ADMINISTRATION BUILDING

The Thomas Jackson Coates Administration Building was named in honor of Eastern's third president. The offices of the President, Dean of Instruction, Dean of Students, Registrar, Business

Department, and other administrative personnel are located in this building. The building contains the Hiram Brock Auditorium which has a seating capacity of 2,000. The auditorium has a stage 40 feet by 30 feet, equipped with adequate curtains and drops, a modern motion picture projection room, and an electronic organ.

CRABBE LIBRARY

The John Grant Crabbe Library, named in honor of Eastern's second president, occupies a central and convenient position on the campus. The library has several large reading and use areas as well as smaller areas for individual and diversified study. Over 125,000 volumes are housed in the building along with an extensive periodical and pamphlet collection, all organized for easy use by library patrons.

DONOVAN BUILDING

The Donovan Building, named to honor Dr. Herman Lee Donovan, fourth President of Eastern Kentucky State College and President emeritus of the University of Kentucky, was first occupied in September of 1961. This building consists of several units housing the laboratory school of Eastern Kentucky State College, and provides college classrooms. The facility is complete in all respects, utilizing modern concepts in design and equipment. Facilities are included for the laboratory school, from the kindergarten through the twelfth grade, with appropriate units designed for physical education, music, arts and crafts, and general academic work at the elementary and secondary levels. Completely air-conditioned, this building compares favorably with any similar facility in the nation.

FITZPATRICK ARTS BUILDING

This building was named to honor H. D. Fitzpatrick, Sr., a long-time member of the Board of Regents of the College. The Fitzpatrick Arts Building houses the Departments of Industrial Arts and Home Economics. The Gibson Addition to the building in 1961 added to the Industrial Arts shop and classroom facilities.

STEPHEN COLLINS FOSTER MUSIC BUILDING

The Stephen Collins Foster Music Building houses the Music Department and provides classrooms for other divisions of the College. Facilities include, in addition to classrooms, nineteen practice rooms, ten studios, a band room and a chorus room, a number of auxiliary rooms such as offices for the head of the Music Department and the band director, listening rooms for music appreciation, student and faculty lounges, and storage and locker space. The building was air-conditioned in the spring of 1961.

ROARK BUILDING

Roark Building provides facilities for the departments of Mathematics, English, Geography, and Geology. It was named in honor of Dr. Ruric Nevel Roark, Eastern's first President.

SCIENCE BUILDING

The Science Building is a modern four-story structure housing spacious, well-equipped laboratories and lecture rooms for the departments of Biology, Chemistry, and Physics.

TURLEY HOUSE

The Turley House is the residence for those students in the Home Economics Department who take the laboratory course in household management. Here the girls live and work together for nine weeks, cooperatively preparing their own meals, doing their own marketing, entertaining their guests, and making a pleasant home life for themselves.

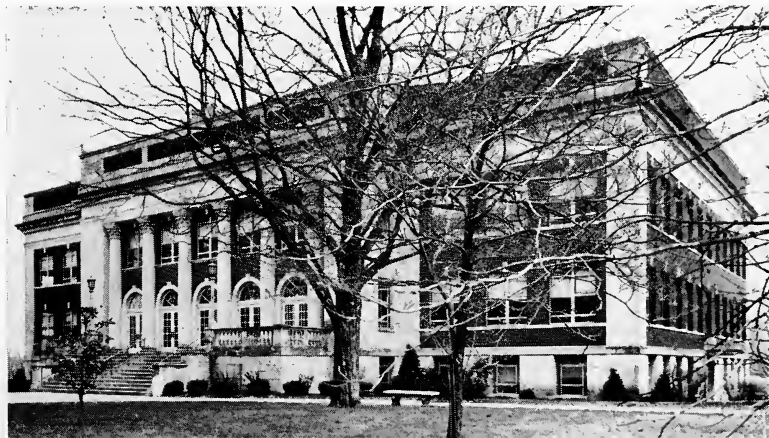
UNIVERSITY BUILDING

The University Building was constructed in 1874 to house old Central University. This four-story brick structure is the oldest academic building on the campus. In the summer of 1961 the building was completely renovated to house the J. T. Dorris Museum and the departments of History, Social Studies, Anthropology, and Sociology.

WEAVER HEALTH BUILDING

The Weaver Health Building is named for the late Charles F. Weaver of Ashland, Kentucky, who served on the Board of Regents at Eastern from 1920 to 1932. In it there are two gymnasiums, one 110 feet by 120 feet and one 74 feet by 40 feet; a large variety of physical education apparatus; an official-size tile swimming pool; offices of members of the women's health and physical education staff, and several classrooms.

The Coates Administration Building, currently being renovated, houses all administrative offices of the College, and Brock Auditorium.



RESIDENCE BUILDINGS

BURNAM HALL

Burnam Hall was named for Judge A. R. Burnam, who served in the Kentucky General Assembly, and helped Eastern secure her first significant appropriation. It provides beautiful, comfortable, and fireproof living quarters for 370 students. Most of the rooms are arranged in suites of two with a connecting bath. A few rooms have private baths.

CASE HALL

Case Hall was named to honor Mrs. Emma Y. Case, Dean of Women of the College from 1932 until her retirement in 1962. The dormitory provides living accommodations for 550 women students. In addition to bedrooms, the building contains spacious reception, lounge, parlor and recreational spaces. A large grill provided in the dormitory will seat approximately 175 persons.

McGREGOR HALL

McGregor Hall is a six story dormitory designed to provide excellent living accommodations for 448 women students. This dormitory is completely air-conditioned and includes lounge and recreational spaces. This excellent facility, named to honor Judge Thomas B. McGregor, a current member of the Board of Regents, was first occupied in September, 1964.

SULLIVAN HALL

Sullivan Hall is a dormitory for women and accommodates 172 students. It was named for the first local regent, Jere A. Sullivan, who helped establish the first two normal schools in Kentucky. Sullivan Hall is a comfortable and convenient home for the women who live there. Central baths are located on each floor of the building.

BECKHAM HALL, McCREARY HALL, AND MILLER HALL

Beckham Hall, Miller Hall, and McCreary Hall are three units so designed as to form a complex. Each of the dormitories provides accommodations for forty-eight men students. The rooms in these three halls are arranged in suites of four rooms and one bath. For each pair of such sections, one above the other, there is an outside entrance. Office and lounge facilities for these halls are located in Beckham Hall.

Beckham Hall is named for the late J. C. W. Beckham, who was Governor of Kentucky when Eastern was founded. McCreary Hall is named for James B. McCreary, a Richmond citizen, who twice served the State as Chief Executive. Miller Hall is named for Robert W. Miller, a Madison countian, who introduced in the lower house of the General Assembly a bill establishing Eastern.

EARLE B. COMBS HALL

Combs Hall replaced Memorial Hall and forms a quadrangle with Keith, Miller, Beckham and McCreary Halls. This dormitory, completely air-conditioned, provides living spaces for 238 men students. Lounge and recreational facilities are included in the facility.

The hall was named to honor Mr. Earle B. Combs, Sr., a member of the Board of Regents of the College.

KEITH HALL

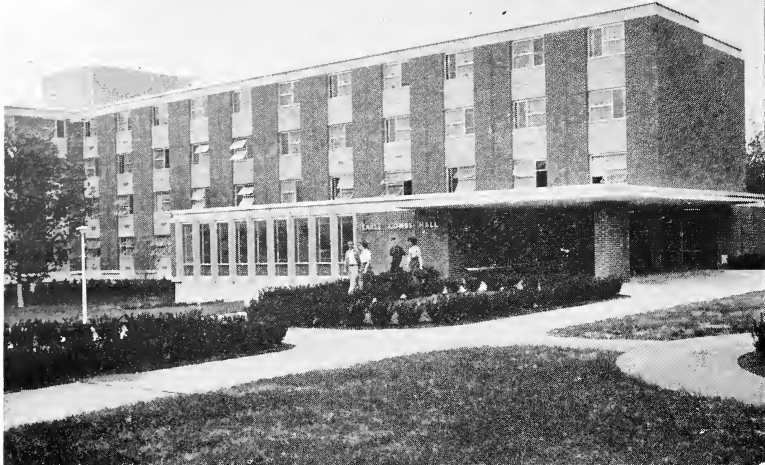
Keith Hall, a dormitory for men, is a modern, fireproof structure containing 88 bedrooms, a spacious lounge, offices, and auxiliary facilities. It has built-in furniture. The entire building has mechanical ventilation that is designed not only to keep a supply of fresh air in each room, but also to regulate the temperature. Keith Hall was named in honor of the late Dr. Charles A. Keith, former Dean of Men at Eastern Kentucky State College, and Mrs. Keith.

O'DONNELL HALL

O'Donnell Hall is a four-story fireproof structure containing 100 bedrooms for men students. This hall was occupied for the first time in February, 1959. A spacious and beautifully furnished lounge, a post office with individual mail boxes, and an adequate parking lot make this residence hall a very well equipped facility. This hall was named to honor Dr. W. F. O'Donnell, President-emeritus of Eastern Kentucky State College.

Todd and Dupree Halls, towering 12-story, fully air-conditioned men's dormitories, houses 360 students each. They will both be in use by the fall semester, 1964.





Earle Combs Hall, named for ex-Yankee baseball slugger, Earle B. Combs, who is vice-chairman of the College Board of Regents, houses 235 men students and is air-conditioned.

MARTIN HALL

Martin Hall is a dormitory that houses 404 men students and contains an air-conditioned cafeteria, spacious recreation and lounge space, and service facilities.

This outstanding dormitory was named to honor Dr. Robert R. Martin, at the time of his inauguration as the sixth president of Eastern Kentucky State College.

MATTOX HALL

Mattox Hall is constructed adjacent to and at right angles with O'Donnell Hall and connected to it by a colonade. This hall matches O'Donnell Hall in all respects and, in addition, contains a snack bar and recreation facilities. This dormitory was occupied for the first time in 1961. Mattox Hall was named to honor M. E. Mattox, Registrar of the College since 1925.

TODD HALL

Todd Hall, one of the twin towers, is a twelve story dormitory recently completed and occupied. This facility provides space for 320 men students and is fully air-conditioned. Todd Hall was named to honor Dr. Russell I. Todd, a current member of the Board of Regents.

DUPREE HALL

Dupree Hall, the other twin tower, matches Todd Hall in design and capacity. Fully air-conditioned, this men's dormitory will be occupied in the summer of 1964. Dupree Hall was named to honor Mr. F. L. Dupree, a current member of the Board of Regents.

BROCKTON

Brockton is the family housing project at Eastern. It consists of 144 modern fire-resistant apartments in all. There are 72 efficiency units, 41 one-bedroom units, and 32 two-bedroom units.

The apartments are furnished with an electric refrigerator and gas range. The efficiency units also contain a sleeper couch and a five-piece dinette set. Each apartment has an individual thermostatically-controlled gas furnace, tile floors, and accoustical ceilings. The bath includes both shower and tub. A coin-operated laundry with both washers and driers is conveniently located in the project area.

Brockton was named in honor of George Marshall Brock, who has been associated with the College since 1918, and the Business Agent since 1923.

TRAILER PARK

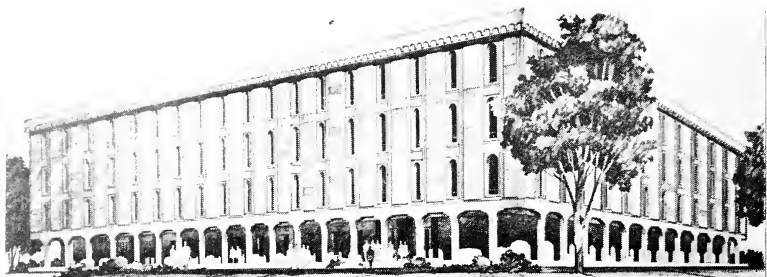
A modern trailer park has been constructed adjacent to Brockton. Paved roadways, landscaped area, adequate space and complete utility services are included. The park will accommodate trailers of all sizes.

OTHER FACILITIES

In addition to the residence units listed above, the College owns or operates several other facilities for the housing of students. Among these are the Lancaster House, Telford House and Stateland House for single men students and several apartments and dwellings on campus for the housing of faculty and staff.

One hundred and fifty-two modern units are contained in Bracktan, married student housing project.





The Bert Combs Classroom Building, set for completion by Fall, 1964, will contain 138,000 square feet of floor space for the Departments of Business, English and Education, and the Graduate School. It will have 61 classrooms and 62 offices and will contain approximately 2,200 teaching stations.

Latest among the dormitory projects announced at Eastern is this 11-story women's residence hall that will house 324 coeds and will be air-conditioned.



OTHER BUILDINGS

JOHNSON STUDENT UNION BUILDING

The Keen Johnson Student Union Building contains club rooms for students, recreation halls, the Little Theater, bookstore, soda fountain and grill, cafeteria, faculty rooms, and a spacious reception room. It was named in honor of a former Governor of Kentucky who was a member of the Board of Regents at the time it was constructed. In 1961 the Student Union Building was renovated and refurnished to provide more extensive services for students, faculty and friends of the College.

BLANTON HOUSE

The two-story brick residence, which is the President's Home, was constructed in 1886 as a residence for the Chancellor of Central University but did not become the property of the College until 1912. This residence has served as the home of Eastern's presidents since that date.

HANGER STADIUM

The Hanger Stadium was built by a donation from Mr. Arnold Hanger together with gifts from students, faculty, and friends of the College and supplemented by a Federal Grant. The stadium has a seating capacity of 7,000 persons for intercollegiate football.

AULT SERVICE BUILDING

The Ault Service Building was named in honor of William A. Ault, who served the College for 45 years as Superintendent of Buildings and Grounds.

This modern facility was completed in 1962. The building not only provides modern shops and office space for the entire maintenance department, but serves as a central supply and storeroom for all departments on the campus.

COLLEGE FARM

The College operates a modern farm, engaging in dairying and production of various crops. The farm operation is located away from the main campus and is housed in up-to-date buildings, providing modern sanitary facilities for the production of food products.



Information For The Student

Expenses and Living	
Accommodations	25
Scholarships and Financial	
Aid	28
Student Employment	29
Student Services and	
Activities	30
The Alumni Association.....	34

PART TWO

EXPENSES AND LIVING ACCOMMODATIONS

EXPENSES

The following list of fees is required of students. All fees must be paid at the time of registration. Incidental fees paid each semester entitle the student to use of the library, to use of the Student Union Building, and to other services as directed by the Board of Regents.

Registration and Incidental Fees (Per Semester)	Kentucky Resident	Out-of-State Resident
Registration Fee		
Undergraduate		
Full-time	\$75.00	\$150.00
Part-time (Fewer than 12 semester hours), per hour.....	7.00	14.00
Graduate		
Full-time	88.00	176.00
Part-time (Fewer than 11 semester hours), per hour.....	8.00	16.00
Health Fee—Full-time	3.00	3.00
Special Classroom Fee		
Full-time	4.50	4.50
Part-time	2.00	2.00
Activity Fee (Optional for Graduate Students)	5.00	5.00
College Yearbook (The Milestone)		
Payable once each academic year by full-time students	6.50	6.50
Registration and Incidental Fees (Summer Term)		
Registration Fee		
Undergraduate		
Full-time	37.50	75.00
Part-time (Fewer than 6 semester hours), per hour	7.00	14.00
Graduate		
Full-time	44.00	88.00
Part-time (Fewer than 6 semester hours), per hour	8.00	16.00
Health Fee—Full-time	1.50	1.50
Activity Fee (Optional for Graduate Students)	2.50	2.50
Special Classroom Fee		
Full-time	2.25	2.25
Part-time	1.00	1.00
Other Fees		
Special Fees		
Home Economics		
215		\$ 7.50
302		5.00

Health and Physical Education	
Physical Education Locker Fee.....	4.00
Music	
130, 131, 350, and 351.....	5.00
110, 111, 320	12.00
All instruments and voice	
One lesson per week	22.50
Two lessons per week	36.00
Practice room, Piano, Voice, one	
hour daily per semester	5.00
Practice room, String and Wind	
Instruments, one hour daily per semester.....	2.50
Rental of College owned instrument	
per semester	3.00
Military Science	
Uniform Deposit	7.00
Other expenses	3.00
Other Expenses	
Late Registration Fee (per day late).....	1.00
Voluntary change of schedule fee.....	1.00
Transcript Fee (other than the initial copy).....	1.00
Graduation Fee (includes cost of diploma,	
cap and gown rental, and other expenses	
incidental to graduation)	
Baccalaureate degree	7.50
Master of Arts degree	20.00
Post office box rent (for each dormitory resident).....	.75

STUDENT IDENTIFICATION CARD

Each full-time student who has paid the full fees for a semester, including the activity fee, will be issued a personal identification card. This card entitles the student to admission to all athletic contests on the campus and to certain other programs sponsored by the College. It must be carried by the student at all times for official identification on the campus, and all full-time undergraduate students must have a valid card before registration is completed.

If the card is lost, it must be replaced. A replacement fee of \$5.00 is assessed. Application for replacement must be made at the office of the Dean of Students.

LIVING ACCOMMODATIONS

Eastern Kentucky State College maintains a number of residence halls for single students. Within limits of the capacities of these halls all single students not living at home are required to live in College facilities. When the capacity of the halls has been reached single students may secure lodging in approved homes downtown which must be on the housing office approved list (single students will **not** be given permission to live in apartments and trailers). All students, whether living in College or private

facilities, are subject to regulations and supervision of the College.

All rooms have single beds for which pillows and linens are furnished. The College bears the expense of having these sheets, and pillow cases laundered. Each student is expected to provide his own blankets, towels, window drapes, and similar articles. Students will find it to their advantage to have their own study lamps.

Residence Halls for Women

	Rent	
	(Includes \$7.00 Linen Service Charge)	(Includes \$4.00 Linen Service Charge)
Burnam	\$ 97.00	\$44.00
Case	97.00	44.00
McGregor	107.00	54.00
Sullivan	97.00	44.00

Residence Halls for Men

Combs	107.00	54.00
Dupree	107.00	54.00
Keith	97.00	44.00
Martin	97.00	44.00
Mattox	97.00	44.00
Miller, Beckham, and McCreary.....	97.00	44.00
O'Donnell	97.00	44.00
Todd	107.00	54.00

A few student bedrooms, located in the basements of various dormitories, are available at a reduced rate.

DORMITORY POLICIES

All students desiring housing at Eastern Kentucky State College should complete an application for a room reservation and forward it to the Dean of Students, Eastern Kentucky State College, Richmond, Kentucky.

An advance rental payment of \$45.00 should accompany the application. This payment is necessary before a reservation will be made. It will be applied to the rent for the first semester following enrollment. The advance payment will be refunded in full if cancellation is received by August 15 for the first semester, January 15 for new students for the second semester, or May 15 for the summer term respectively.

Room reservations must be claimed by midnight of the last day of registration. Those rooms not claimed by that day may be reassigned to other applicants.

Refunds of rent after a room is accepted shall be made only in exceptional instances. In no case shall a refund of rent be made to students moving from the College housing at their convenience.

Dormitory rent is paid by the semester and is due and payable

at registration. Refunds, when authorized, shall be made on the following schedule, based on weeks of occupancy of the room. Semester: up to two weeks, 75%; two to four weeks, 50%; four to six weeks, 25%. After six weeks no refunds will be made. Summer term: one week, 75%; two weeks, 50%; three weeks, 25%. After three weeks no refunds will be made.

FOOD SERVICE

The College operates several food service facilities on the campus. Large, modern, air-conditioned cafeterias in the Johnson Student Union Building and Martin Hall serve attractive, wholesome meals at reasonable prices. In addition, snack bars are located in the Johnson Student Union Building, Case Hall, Martin Hall, and Mattox Hall.

SCHOLARSHIPS, FINANCIAL AID, AND STUDENT EMPLOYMENT

SCHOLARSHIPS

The William Davis Scholarship. Under the provisions of the will of the late William Davis of Newport, Kentucky, a sum of money was left for the benefit of the student living in the Lona Estella Davis school district of Rowan County. Scholarships of \$200.00 each are awarded by the Superintendent of Rowan County schools and the President of Eastern Kentucky State College. A student desiring to secure one of these scholarships should write to the Chairman of Student Aid Committee, Eastern Kentucky State College, or make application to the Superintendent of Rowan County Schools.

The Myrtle Mae Sloan Memorial Fund was established in 1959, in memory of Miss Myrtle Mae Sloan, by her sister, Miss Viva Odean Sloan, resident of Berea, Kentucky. The income from this fund will be paid to a high ranking student who needs help to enable him or her to remain in college.

The Lily Christopher Ogg McWhorter Memorial Fund was established in 1959, in memory of Mrs. Nina Rachel Ogg Pee and William Emery Ogg, graduates of Eastern, by their sister, Mrs. Lily Christopher Ogg McWhorter. They were all residents of Madison County. The income from this fund is to provide financial aid for persons of good ability but of little money.

In the field of Music there are three scholarships awarded annually to those students who make the most satisfactory progress in piano, voice, and violin.

The Presidential Scholarships are awarded annually by the President on the basis of high scholastic potential and need. These scholarships have an approximate value of \$65.00 per semester.

Phi Delta Kappa Scholarship. The Epsilon Rho Campus Chapter of Phi Delta Kappa, an education fraternity for men in education, awards a full tuition scholarship each year to a full-time male graduate student. Applications and information may be secured by

writing to the Graduate Office. Applications must be submitted by July first of each year.

LOAN FUNDS

The National Defense Student Loan Program at Eastern provides loans for students. Priority is given to students who have superior records in high school and college and who are majoring in Mathematics or Science or who are planning to prepare themselves to teach. To get application forms and a statement of conditions relating to the loans, applicants should send their requests to the Chairman of the National Defense Student Loan Fund, Eastern Kentucky State College.

The Student Loan Fund of the Eastern Kentucky State College is designed to help worthy students complete their education. It has been augmented from time to time by gifts from different individuals and organizations and is being increased annually. Small loans are available to upperclass students. Those having high scholarship records will be given preference in the granting of loans. This fund makes it possible for a student to borrow a small amount of money on a personal note at a legal rate of interest. Students who desire further information concerning this fund should get in touch with the Chairman of the Student Aid Committee.

STUDENT EMPLOYMENT

There is opportunity for student employment, whereby a limited number of students may earn a part of their expenses by working in the College Cafeteria, Library, Bookstore, Post Office, Dormitories, Administrative Offices, College Dairy and Farm, Maintenance Department, and Faculty Offices. Some students may also secure part-time employment in Richmond stores, restaurants, and other businesses.

Student labor should be limited so that work hours will not take too much of the student's study time. While ten hours per week is an average labor load, circumstances may permit a greater number of hours. No student, however, should enter the College without sufficient money for the semester unless there is a definite guarantee of work to support him.

OTHER FINANCIAL ASSISTANCE

The Veterans Program at Eastern Kentucky State College is approved by the Veterans Administration for the education of veterans under the provision of Public Law 894, Public Law 634, and Public Law 550, Veterans Readjustment Act and the Korean GI Bill. Students concerned with veterans training should have, at the time of his registration, a certificate of eligibility. This is secured from the regional office of the Veterans Administration. The College is responsible for the completion of certain Veterans Administration forms and for the other necessary information about students who receive this aid.

If you have completed courses while in the Armed Forces, ask the Registrar about the possibility of receiving credit for such courses.

VOCATIONAL REHABILITATION

Vocational Rehabilitation for students with physical handicaps of various kinds may be approved, and may receive financial benefits as approved by the Department. Students who wish to consult with a representative relative to vocational rehabilitation should write the Department of Education, Division of Special Education, Frankfort, Kentucky, for specific instructions.

STUDENT SERVICES AND ACTIVITIES

Eastern Kentucky State College strives at all times to furnish services and activities which make the campus a home away from home. Our services are concerned with all phases of students' lives, and are so organized that we attempt to help every student to realize his or her own possibilities. Caring for personal and social needs, promoting the maximum growth of every student, and developing effective programs to meet the needs of a changing student body in a shifting world social scene receives high priority in the minds of our faculty, staff and administration.

Our operating policies represent the combined wisdom of students, faculty, and administration. Our services to students are coordinated through the student personnel programs and administered by a group of people who have a genuine interest in developing ideal programs to meet the needs of one of the largest student bodies in Kentucky. While it isn't possible to list in detail all the specific activities and services to students, you will find many of them described in this catalog.

STUDENT HEALTH SERVICE

Student health service is under the direction of the College Physician. An infirmary located on the ground floor of Sullivan Hall is staffed by Registered Nurses on a 24-hour per day basis. The College provides instruction in first aid, safety, personal and community hygiene and similar services to complement the student health program.

GUIDANCE AND COUNSELING SERVICES

The student personnel services of the College are related to: (1) Admission of new students; (2) Orientation of Freshman; (3) Evaluation and counseling of students; (4) Mental and physical health; (5) Provision for well-rounded student activities; (6) Supervision of adequate living facilities; (7) Maintenance of useful personnel records; (8) Provision for employment, placement, and follow-up requirements; and (9) Vocational information. Files on occupations and job opportunities are available on campus.

Many staff members handle various aspects of the student personnel work. The Dean of Students and his staff, together with

all members of the faculty, provide counseling for students. Counsel, relative to social life, living facilities, and related problems of students, and other specialized guidance as needed by students and as implied by a modern philosophy of education, is readily available.

All new students at Eastern are assigned to a counselor to guide them toward the initiation of a successful college career.

Optional services are available to help individuals with their planning and clinical services are arranged to meet special needs. All personnel activities are designed to be practical in that they are provided to help students attain a maximum personal, social, and academic development in a stimulating environment.

Many types of tests are utilized in the college program. All freshman and transfer students participate in a testing program. The results are used in counseling, placement and scheduling of classes. Several departments give tests for the purpose of locating talent, interests, and aptitudes of the student body. The graduate school gives tests for admission to the program.

ATHLETICS AND RECREATION

Eastern offers a fine and varied athletic and recreational program for both men and women students. It consists of three major programs: Intercollegiate Athletics, Intramurals for Men, and Women's Recreation Association activities for women.

Eastern Kentucky State College is a member of the Ohio Valley Athletic Conference and the National Collegiate Athletic Association. The Ohio Valley Conference annually produces teams that have top ranking among universities and colleges in the United States. In addition to these conference contests, representative teams from all parts of the country are scheduled. Intercollegiate competition is carried on in eight different sports. They are: football, basketball, swimming, tennis, golf, track, cross country, and baseball.

SOCIAL ACTIVITIES

The Social Committee of the College also arranges a multitude of social activities for the benefit of Eastern's students. Such activities as movies, dances, receptions, and parties are planned so the student can achieve maximum enjoyment. Every student has the chance to participate in a leisure time activity of his or her choice.

STUDENT ORGANIZATIONS

The student organizations, societies and clubs form an intrinsic part of the program of Eastern Kentucky State College that fulfills academic, social and religious functions. The student organizations at Eastern offer varied activities to encompass the interests of all students.

The Honorary Societies are: Kappa Iota Epsilon, Omicron Alpha Kappa, Collegiate Pentacle, and CWENS.

The Departmental Organizations are: Home Economics Club, Music Club, Music Educators National Conference, Pershing Rifles,

Association of United States Army, Kappa Kappa Sigma, Women's Recreation Association, Physical Education Majors and Minors, Alpha Psi Omega, Canterbury Club, Eastern Little Theater, Polymathologists, Student National Education Association, Biology Club, Industrial Arts Club, World Affairs Club, Agriculture Club, Alpha Alpha Psi of Kappa Pi, Le Cercle Francais, Chemistry Club, Accounting Club, Kappa Delta Pi, Caduceus, Sigma Tau Pi, Pi Omega Pi, Phi Delta Kappa, and Scabbard and Blade.

Religious Organizations are: Young Men's Christian Association, Young Women's Christian Association, Pi Tau Chi, Baptist Student Union, Wesley Foundation, Newman Club, Westminster Fellowship, Disciples Student Fellowship, and Episcopal Canterbury Club.

Activity Organizations are: *Milestone*, Photography Club, *Eastern Progress*, Kyma, and Varsity "E" Club.

The Other Student Organizations are: Student Council, Student Discussion Club, Collegiate Council of United Nations, Sigma Chi Mu, Kappa Delta Tau, Cheerleaders, Young Democrats Club, Sigma Chi Delta, Circle K, Young Republicans Club, Men's Inter-Dorm Council, Women's Dormitory Council, Boyd County Club, Clay County Club, Fayette County Club, Floyd County Club, Franklin County Club, Greenup County Club, Harlan County Club, Jefferson County Club, Laurel County Club, Letcher County Club, Magoffin County Club, McCreary County Club, Mercer County Club, Pike County Club, Pulaski County Club, and Woodford County Club, Choir, Band, Orchestra, and Messiah Chorus.

The choir, band and orchestra have several programs, on and off campus, during each school year. They make a number of appearances before high schools and other organizations across our state.

STUDENT PUBLICATIONS

THE EASTERN PROGRESS, weekly student newspaper, is the official student publication of the College, and all students are encouraged to take advantage of the journalism training offered by the Progress organization. With the recent reorganization of the newspaper, it is considered as perhaps the finest newspaper in the College's history.

THE MILESTONE is the College yearbook, published annually by the representatives of the Senior Class. This publication contains photographic and statistical records of all organizations and events of the College year, presented in an attractive manner. The book is distributed during the last two weeks of the spring semester.

Both the *Progress* and *The Milestone* have received numerous national awards during the past two years and are ranked among the top publications in the nation.

BELLES LETTRES is a magazine of student writing edited and published by the Canterbury Club, an organization of English majors and minors who meet monthly to encourage interest in



Outstanding lecturers and artists appearing frequently in Hiram Brock Auditorium add to the student's cultural growth.

literary activity. The magazine accepts poems, one-act plays, and short stories from any student. It is issued each year near the end of the spring semester.

CULTURAL ACTIVITIES

Every effort is made at Eastern to surround the students with cultural advantages. The programs presented are planned as part of the students' education and much time and effort is put forth to provide programs that will be of benefit to students.

Assemblies are held regularly once a week and special assemblies are held when the occasion warrants. While programs at these assemblies are designed primarily for the students and faculty, visitors to the campus are welcome to attend. Programs planned for these assembly periods include appearances by nationally recognized lecturers and artists. Programs are provided on other occasions by lecturers or musical groups which have relationship to the College. Many fine programs are furnished by the Music Department of the College. Important College matters are officially presented to the student body by the President.

Freshmen are required to attend assembly as a part of their orientation course.

Concert Series are presented at the College in cooperation with the Community Concert Association. Students are admitted to these excellent programs without charge. These programs feature some of the outstanding individuals and groups in the nation.

Art Exhibits, maintained by the Art Department, are on continuous exhibition and feature the works of America's foremost artists as well as the works of artists from other countries. This

exhibition is housed in the Exhibit Room, Cammack Hall. In addition, special exhibits are sometimes arranged for showing in the Student Union Building.

Church Affiliation is recognized as an important factor in the life of any student. Eastern is a state-supported institution and is, therefore, non-denominational. The College has a basic objective in helping to develop ethical character among all students. There is close cooperation between the institution and several fine churches in Richmond. Students are encouraged to attend church services in town. Eastern makes spaces available for several student church organizations to meet on the campus.

Dramas are presented by the Eastern Little Theatre and every College student may take part in their stage productions. Dramatic productions each semester provide opportunities in acting, directing and some technical aspects of the theater. Large groups of students enjoy our campus productions.

Each year many groups utilize facilities of the College for conferences, workshops, and other meetings. Frequently, these groups will present concerts, recitals, or lectures of note. Often students are invited to attend these meetings.

STUDENT AWARDS

The Delta Alpha Chapter of Kappa Delta Pi presents annually a medal to the sophomore with the highest scholastic standing.

The Charles F. Weaver Fund is a fund of \$1,000.00 established by the late Charles F. Weaver, long-time member of the Board of Regents, to encourage proficiency in oratory and home economics. The income from the fund is used to provide prizes to be awarded annually to the student who excels in oratory and to the student who has made the greatest advance in the field of home economics. The recipients are selected by a faculty committee.

The Anna D. Gill Award is a fund established in memory of Miss Anna D. Gill, long-time faculty member of the Commerce Department. The income from this fund will be awarded annually to the outstanding senior commerce student.

A Student Service Award is presented annually by members of the Young Men's and Young Women's Christian Association to that member of the graduating class who, during his or her four years at Eastern, has given the greatest measure of service to fellow students.

The Yeager, Ford & Warren Award is for the purpose of stimulating an interest in the study of accounting and related subjects and encouraging the entrance of young men in the field of professional accounting. The \$100.00 award is given at the end of the junior year to the student selected by the Department of Business as most likely to succeed in the practice of public accounting.

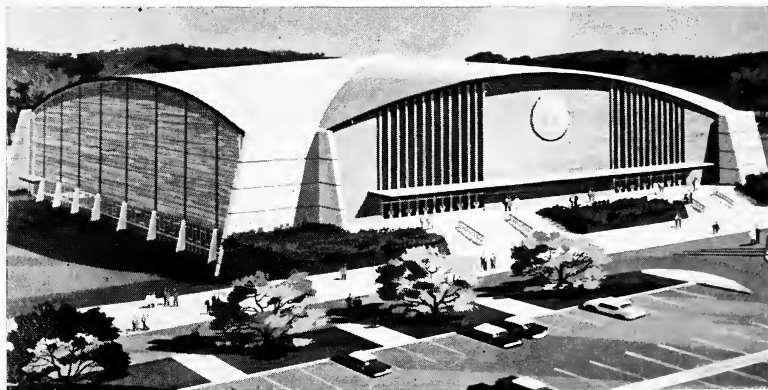
PLACEMENT OFFICE

The Placement Office is maintained by the College to assist students and alumni in obtaining positions in schools, businesses and industry. Each year, Superintendents, Principals, and other public school officials come to this office to secure qualified individuals to fill their vacancies. No charge is made for this service. Graduates of Eastern may leave pertinent information and records of recommendations in the office until such time as they will need it as a reference.

Department heads, professors, and citizens furnish great amounts of data which are filed in the Placement Office.

THE ALUMNI ASSOCIATION

The Alumni Association of Eastern has as its purpose to promote fellowship among the graduates and to stimulate mutual interest and concern between the College and the Alumni. Eastern now has nearly 12,000 graduates. Many of these men and women hold more than one degree from the College. All of them are eligible for membership in the Eastern Alumni Association, "with all the rights and privileges appertaining thereto." All former students who have as much as a semester's work at Eastern, former faculty and staff members, are eligible for associate membership. The Alumni Association encourages all alumni to make an annual gift to the Alumni Fund each year. The minimum gift is \$2.00, which serves as the "dues" for membership in the Association. This is used by the Association's Alumni Office to help defray



Alumni Coliseum provides outstanding facilities for physical education and for basketball. The arena seats 6,500, and 1,300 automobiles can be parked in the huge multi-purpose paved outside area. The plant also contains two swimming pools, one of which is outdoors.

operating expenses. The remainder of any contribution will be used for the specific purpose designated by the contributor. Annual active membership is obtained by making an annual contribution of at least \$2.00, or \$3.00 for a joint membership (husband and wife). Life memberships are \$50.00 for single and \$75.00 for joint memberships.

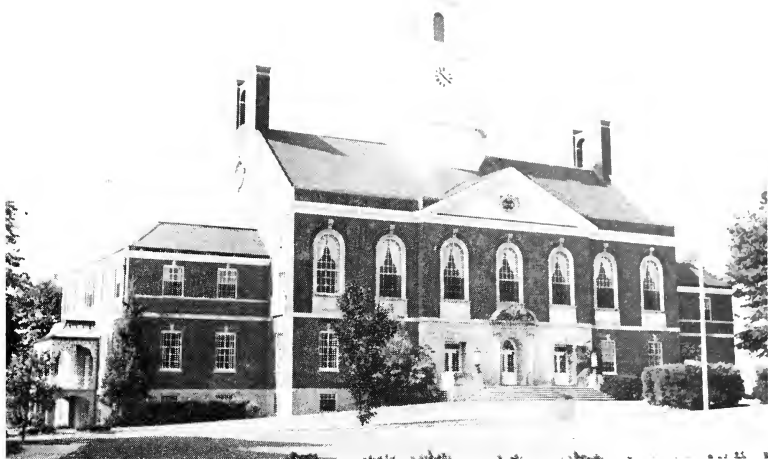
The Alumni Association sponsors Homecoming in the fall, K.E.A. breakfast in the spring and Alumni Day at commencement time. The latter features an Alumni Dinner honoring the 50 year and the 25 year classes and the presentation of the Outstanding Alumnus Award. In addition, active Alumni Clubs at Louisville, Greater Cincinnati, Ashland-Huntington-Ironton area, Pulaski County, Floyd County, Pike County, Perry County, Harlan County, Fayette County, Dayton, Ohio, and Washington, D. C., have numerous meetings throughout the year open to all alumni and former students in the area. Many more Eastern Alumni Clubs are expected to be installed during the 1964-65 school year.

The Eastern Alumni Association is a member of the Joint Alumni Council of Kentucky, an organization made up of the alumni of the six state-supported institutions: Eastern, Kentucky State, Morehead, Murray, Western and the University of Kentucky.

The *Eastern Alumnus*, official magazine of the Alumni Association, is published each fall and spring by the Association for its members. Subscription is included in the membership dues.

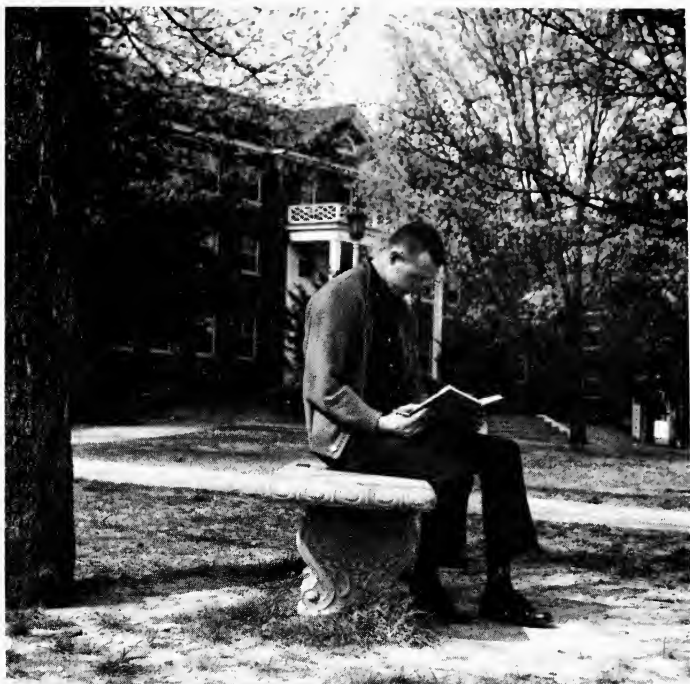
The Alumni Office is conveniently located in the Administration Building where alumni and students may get bulletins and information. This is a good place for former students to find the addresses of their colleagues. Graduates, former students and faculty members are always welcome at the Alumni Office.





The Keen Johnson Student Union Building is the center of campus social life. It contains the air-conditioned cofeteria (below), grill, bookstore, Walnut Hall, and several meeting rooms.





General Academic Information

Admission to the College..... 41

Student Programs and
Regulations 42

PART THREE

ADMISSION TO THE COLLEGE

I. Methods of Admission.—Candidates for admission to Eastern may be approved in any of the following ways:

1. High School Graduation.

- A. Students who graduate from an accredited high school in Kentucky may be admitted to the freshman class on the basis of an official transcript and a recommendation from the principal. The distribution of credits should include two majors and a minor. A minimum of three units is required for a major and two units is a minor. One major must be in English. Not more than four units will be accepted in vocational courses.

2. By Special Approval.

- A. Students who have a minimum of 15 units with superior grades may be admitted on examination provided the high school principal recommends that the student is qualified to do college work.
- B. Veterans who have a minimum of twelve units of high school work and have successfully passed the G. E. D. tests may be admitted provided their test at Eastern shows that they rank as high as the average freshman entering college.
- C. Persons over 21 years of age who wish to pursue courses as special students without reference to graduation may be granted the privilege if they have adequate preparation for the courses desired.

3. By Advanced Standing.

- A. Students who have attended other colleges are admitted to the College upon presentation and approval of credits from accredited institutions. Applicants transferring from other colleges and universities should present their applications at least ten days prior to the day of registration for the semester or summer term in which they plan to attend so that proper evaluation and acceptance can be made.
- B. A maximum of 67 semester hours of credit will be accepted from accredited junior colleges.

II. Application for Admission.—Applications for Admission to the Eastern Kentucky State College cannot be unconditionally approved until transcripts of credits are filed in the Office of the Registrar. As soon as possible after an Application for Admission and a Transcript of Credits are received, the candidate will be notified whether or not he is accepted.

It is the responsibility of the applicant to have the following items sent to the Registrar prior to the opening date of a term:

1. An application for admission, properly filled out by the applicant, should be made upon a regulation blank furnished by the Registrar.

2. A transcript of the secondary school credits, issued after graduation, should be mailed directly by the principal to the Registrar.
3. An official transcript of any college credits and a statement of honorable dismissal, regardless of whether or not the student received credit for the work, should be mailed directly to: The Registrar, Eastern Kentucky State College, Richmond, Kentucky.

STUDENT PROGRAMS AND REGULATIONS

Eastern Kentucky State College operates on the semester plan. The regular academic year is divided into two semesters of eighteen weeks each. The summer term, which is an integral part of the program, is eight weeks in length.

Classification of Students.—Students shall be classified as indicated below upon the completion of the respective number of hours, provided that the student has removed all entrance conditions:

Freshman—Entrance requirements
 Sophomore—30 semester hours
 Junior—60 semester hours
 Senior—90 semester hours
 Graduate—Baccalaureate degree

How Courses Are Numbered.—Courses are numbered according to the following plan:

Courses numbered 100 to 199 are primarily for freshmen.
 Courses numbered 200 to 299 are primarily for sophomores.
 Courses numbered 300 to 399 are primarily for juniors.
 Courses numbered 400 to 499 are primarily for seniors.
 Courses numbered 500 to 599 are for graduate students.

Grading System.—Grades are indicated by letters, to each of which is given a certain value in "grade points." The following is the interpretation placed upon the grading system:

Grade	Meaning	Grade Points Per Semester
		Hour
A	Excellent	4
B	Good	3
C	Average	2
D	Poor	1
F	Failure	0
I	Incomplete	

The grades, A, B, C, D, and F cannot be changed by the instructor. A grade of "D" gives credit toward a certificate or a degree if with such credits the student's standing is 2 or more. A grade of "I" shall be assigned only upon condition the student has been unable to complete the course on time because of unavoidable

conditions. A grade of "I" must be made complete within one month after the student re-enters the Institution. All grades of "I" automatically become "F" if not completed at the end of a year.

A student's point average is obtained by dividing the total number of points earned by the total number of semester hours undertaken. Courses in which the marks are Cr., W, or WP are recorded but are not figured in computing the point average. In order for a student to fulfill the requirements for a certificate or a degree he must offer a number of "grade points" at least twice as great as the number of semester hours attempted.

Student Load.—The normal load for a semester for undergraduate students is eighteen semester hours. The minimum load to be classed as a full-time student is twelve semester hours. Students who have established superior records in the institution may be permitted to enroll for additional hours provided the approval of the Dean of Instruction or Registrar is secured at the time of registration. The maximum load, however, shall not exceed twenty-one hours.

Correspondence work may be taken while in residence only on condition that it is counted as a part of the load. The combined load of correspondence and residence work cannot exceed the amount the student may take in residence. This regulation applies regardless of the institution with which the student does correspondence work.

Scholarship.—Any freshman or sophomore student failing to make an average standing of 1.6 for the semester will be placed on probation for the next semester for which he enrolls. If during the probation period he fails to make an average standing of at least 1.6, he may be dropped from the college. A student who is dropped may be considered for readmission after a lapse of one semester by applying in writing to the Dean of Admissions for consideration by the Admissions Committee.

Upon completion of 60 or more semester hours of work with an average grade of "C", the student may register as a junior. Any junior or senior student failing to maintain an average standing of 2.00 will be placed on probation for the next semester for which he enrolls. If during the probation period he fails to secure a cumulative average standing of 2.00, he may be dropped from the College.

Class Schedule Changes.—Necessary changes in courses must be made within ten days after registration for the regular semester or five days in the summer term, and must be approved by the Dean of Instruction. Approval to drop a course without a grade cannot be given after thirty calendar days (15 calendar days for the summer session) following registration, unless justified by conditions beyond the student's control, such as, serious personal illness, obligations relative to military service, or serious financial

or family obligation necessitating withdrawal from college. It is to be understood that any course dropped unofficially will result in a failing grade.

Late Registration.—No one will be permitted to register for regular day classes after the second week of a semester or after the first week of a summer term. Special consideration for registration beyond these periods of time may be requested from the Admissions Committee.

Withdrawal from the College.—Students who find it necessary to leave the College under any conditions must visit the Office of the Dean of Students and secure an official Withdrawal Card. This card must be carried by the student to several campus offices, where records must be cleared. Unless the student follows this procedure, the permanent records in the Registrar's Office are incomplete. Therefore, students receive grades of "F" for the semester's work and will not be eligible for readmission. Students failing to complete a Withdrawal Card within fifteen days will receive an unofficial withdrawal.

Official Schedule Changes.—The College reserves the right to cancel a course when the registration is not sufficient to warrant its continuance, to divide classes if the enrollment is too large for efficient instruction, and to change instructors when necessary. Additional courses will be organized if the demand is sufficient.

General Requirements for the Baccalaureate Degrees.—The degree of Bachelor of Arts or Bachelor of Science is conferred upon those students who have completed an approved four-year curriculum. The minimum amount of credit required for the bachelor's degree is one hundred and twenty-eight semester hours of college credit. Not more than thirty-two semester hours of the work required for a degree may be earned by extension and/or correspondence. A candidate for a degree must have been in residence a minimum of 36 weeks and must have earned a minimum of 32 hours while in residence. At least 30 hours of the last 36 required for a degree must be earned in residence at Eastern. This regulation became effective September 1, 1959, and will apply to all work earned after September 1, 1959.

The curriculum which the student expects to follow for the completion of the requirements for the bachelor's degree must be filed in the office of the Dean of Instruction not later than the end of the junior year. The curriculum must be approved by the Dean of Instruction and by the major professor. A student's planned curriculum cannot be changed after fifteen days following the semester in which a student makes application for graduation.

In order to be eligible to graduate a student should have a good proportion of his work in the upper division of the college. At least

43 semester hours of his work must be in courses numbered in the three and four hundreds.

Candidacy for Graduation.—A student planning to graduate in June should file application for a degree before the end of the first semester. Students who are planning to graduate in August should file application not later than the beginning of the second semester. Applications should be filed in the Registrar's Office. Fees for graduation are to be paid at the Business Office and receipts presented to the Registrar's Office.

Commencement.—Commencements are held at the close of the spring semester and at the end of the summer session. Students who are candidates for degrees are required to participate in the commencement exercises unless excused by the President. A student who completes the requirements for a degree during the fall semester will receive the degree at the following spring commencement.

Commencement Honors.—Students are graduated "With High Distinction" who attain a standing of 3.6 or higher for at least three years of residence work.

Students are graduated "With Distinction" who attain a standing of 3.4 up to 3.6 for at least three years of residence work.

A student who does only two years at Eastern may receive the appropriate commencement honors if he attains a standing of .2 greater than the above.



Climax to four years' work comes during commencement ceremonies.



The Curricula

Teacher Education	49
Degrees Without Right of Certification	52
Pre-Professional Curricula	52
Laboratory School	58
Extension Division	59
Graduate Division	61
Areas of Concentration.....	65

PART FOUR

CURRICULA

TEACHER-EDUCATION CURRICULA

Degrees.—The Curricula offered by the College have been planned and developed to meet the needs of students who desire to become teachers, principals, supervisors, superintendents, attendance officers in the public schools, and guidance counselors. Curricula are offered for the preparation of elementary teachers; for teachers of the special subjects of agriculture, art, business, health and physical education, industrial arts, music and vocational home economics; and for the preparation of high school teachers in fields of biology, chemistry, earth science, English, French, geography and geology, German, history, Latin, mathematics, physics, political science, and Spanish. These curricula lead to the baccalaureate degrees and the Master of Arts degree with right of certification.

The Bachelor of Arts Degree is conferred upon students who major in art, English, French, geography and geology, history, Latin, music, political science, social science, and Spanish.

The Bachelor of Science Degree is conferred upon students who major in biology, business, chemistry, earth science, elementary education, health and physical education, home economics, industrial arts, mathematics and physics.

The Master of Arts Degree in Education is conferred upon students who complete the graduate program designed to meet the needs of teachers, supervisors, guidance counselors, educational administrators, etc.

PROVISIONAL ELEMENTARY CERTIFICATE

The Provisional Elementary Certificate valid for ten years shall be issued to a person who completes a baccalaureate degree and meets the requirements for teaching in the elementary schools. The Provisional Elementary Certificate is valid on a continuing basis provided the certificate is registered at the end of each ten-year period in the Division of Teacher Education and Certification of the State Department of Education on evidence of three years of teaching experience or twelve semester hours of additional graduate work.

The curriculum for the preparation of elementary teachers is given in the material under Education found subsequently in this catalog.

STANDARD ELEMENTARY CERTIFICATE

The Standard Elementary Certificate valid for ten years shall be issued to a person who meets the requirements of law and general regulations of the State Board of Education and files a transcript of credits showing the completion of the four-year curriculum for the training of elementary teachers as prescribed by the Council on Public Higher Education, and who, in addition thereto, completes the requirements for a Master's degree in a standard graduate school, as prescribed.

The curriculum, which is to be approved by the State Board of Education, leading to the Standard Elementary Certificate shall be based upon the following:

- a. Completion of the requirements for the Master's degree which shall be based upon at least 30 semester hours of graduate work. For students who write a thesis, a minimum of 24 semester hours shall be required.
- b. At least 15 of the 30 hours required for the Master's degree must be in courses open only to graduate students. Nine of the 15 hours must be in professional education courses.
- c. At least nine semester hours of the required work shall be in professional education courses designed to develop the recommended competencies.
- d. At least 12 semester hours of the total hours required for the degree shall be non-professional subject matter courses. These courses must be selected from the fields of study required in general education and/or in subject matter courses used in partial fulfillment of the four-year elementary curriculum for elementary certification.

The Standard Elementary Certificate may be extended for life upon three years of successful teaching experience during the life of the certificate. If the holder fails to meet the requirements for life extension before the certificate expires, the certificate may be registered at the end of each ten-year period in the Division of Teacher Education and Certification of the State Department of Education on basis of four semester hours of graduate work for each of the three years the teacher fails to teach.

PROVISIONAL HIGH SCHOOL CERTIFICATE

The Provisional High School Certificate valid for ten years shall be issued to a person who completes a baccalaureate degree for the training of high school teachers. The Provisional High School Certificate is valid on a continuing basis provided that the certificate is registered at the end of each ten-year period in the Division of Teacher Education and Certification of the State Department of Education on evidence of three years of teaching experience or 12 semester hours of additional graduate work.

Courses of instruction leading to the Provisional High School Certificate are to be found under the material of the various academic departments.

STANDARD HIGH SCHOOL CERTIFICATE

The Standard High School Certificate valid for ten years shall be issued to a person who meets the requirements of law and general regulations of the State Board of Education and files a transcript of credits showing the completion of the four-year curriculum for the training of high school teachers as prescribed by the Council on Public Higher Education, and who, in addition thereto, completes the requirements for a Master's degree in a standard graduate school as prescribed.

The curriculum leading to the Standard Secondary Certificate shall be based upon the following:

- a. Completion of the requirements for the Master's degree which shall be based upon at least 30 semester hours of graduate work. For students who write a thesis, a minimum of 24 semester hours shall be required.
- b. At least 15 of the 30 hours required for the Master's degree must be in courses open only to graduate students. Nine of the 15 hours must be in professional education courses.
- c. At least nine semester hours of the required work shall be in professional education courses designed to develop the recommended competencies.
- d. At least 12 of the 30 semester hours required for the degree shall be non-professional subject matter courses. These courses must be selected from the general education courses and from the list of subjects in which majors and/or minors may be completed on the undergraduate level and used in partial fulfillment of requirements for the bachelor's degree and the Provisional High School Certificate.

The Standard High School Certificate may be extended for life upon three years' successful teaching experience during the life of the certificate. If the holder fails to meet the requirements for life extension before the certificate expires, the certificate may be registered at the end of each ten-year period in the Division of Teacher Education and Certification of the State Department of Education on basis of four semester hours of graduate work for each of the three years the teacher fails to teach.

CURRICULA FOR SCHOOL LEADERS (Administrators, Supervisors)

Eastern offers curricula leading to the Provisional Certificate for School Leaders (principals, supervisors, and superintendents). For each of the Provisional Certificates the applicant must have completed a curriculum leading to the Master's degree. In the case of the principal and supervisor three years of successful teaching experience or the equivalent are required. For the superintendent four years of successful teaching or administrative experience or the equivalent are required.

CURRICULUM FOR GUIDANCE COUNSELORS

Eastern offers a curriculum leading to the Provisional Certificate for Guidance Counselor. The Master's degree is required for this certificate. The Provisional Certificate for Guidance Counselor shall be valid for a period of ten years and renewable each ten-year period on the basis of three years of experience as a guidance counselor. The applicant must have had three years of successful teaching experience or two years of teaching experience and one year of employment in fields other than teaching.

DEGREES WITHOUT RIGHT OF CERTIFICATION (Non-professional)

It is possible for a student to secure a degree without the right of teaching in most of Eastern's academic departments. The requirements for such degrees are fully set forth in the description of the various academic departments found elsewhere in this catalog.

PRE-PROFESSIONAL CURRICULA

CURRICULUM PREPARATORY FOR MEDICINE AND DENTISTRY

Eastern offers a preparatory course for the study of medicine which, with modifications to meet special variations in requirements, complies with the general entrance requirements of medical schools. The curriculum outlined below also includes institutional requirements for graduation with a Bachelor of Science degree.

It is recommended that a student complete the four-year course of study at Eastern before transferring to a medical school. This gives the student obvious advantages in medical school and in later work. Furthermore, some medical schools require a four-year course for admission.

Students may elect to complete the outlined three years at Eastern and then use the first year of work from a Class A medical school to complete the requirements for the Bachelor of Science

degree. Combination courses are subject to approval by Eastern and by the particular medical school.

Students who desire may take only two years for a premedical course. Many medical schools will not accept students with only two years of premedical training and Eastern does not recommend such a limited course.

PRE-MEDICAL CURRICULUM

First Year

First Semester	Hours	Second Semester	Hours
Biology 141	4	Biology 142	4
Chemistry 111	4	Chemistry 112	5
English 101	3	English 102	3
Military Science 101 (Men)		Military Science 102 (Men)	
or		or	
Elective (Women)	2	Elective (Women)	2
Physical Education 115	1	Physical Education 116	1
Social Science 100	3	Social Science 101	3
Orientation 100	1	Orientation 101	1
	<hr/> 18		<hr/> 19

Second Year

Biology 342	5	Biology 347	4
Chemistry 211	5	Chemistry 212	5
English 211	3	English 212	3
Mathematics 107	3	Mathematics 113	3
Military Science 201 (Men)		Military Science 202 (Men)	
or		or	
Elective (Women)	2	Elective (Women)	2
	<hr/> 18		<hr/> 17

Third Year

Biology 445	2	Chemistry 312	5
Chemistry 310	5	Foreign Language	3
Foreign Language	3	Physics 132	5
Elective in Humanities	3	Psychology 211	3
Physics 131	5		
	<hr/> 18		<hr/> 16

Fourth Year

Biology 446	3	Biology 303	4
Chemistry 415	5	Chemistry 416	5
Elective in Social Science	3	Elective in Humanities	3
Elective	5	Sociology 231	3
	<hr/> 16	Elective	2
			<hr/> 17

PRE-DENTAL CURRICULUM

A student who is planning to enter dental school should follow the curriculum outlined for pre-medical work.

MEDICAL TECHNOLOGY

Students who are interested in becoming medical technicians may secure many of the required college courses at Eastern. The requirements for this type of work vary and the student should elect courses to meet particular requirements.

MEDICAL TECHNOLOGY CURRICULUM

First Year

First Semester	Hours	Second Semester	Hours
Biology 141	4	Biology 142	4
Chemistry 111	4	Chemistry 112	5
English 101	3	English 102	3
Military Science 101 (Men)		Military Science 102 (Men)	
or		or	
Elective (Women)	2	Elective (Women)	2
Physical Education 115	1	Physical Education 116	1
Social Science 100	3	Social Science 101	3
Orientation 100	1	Orientation 101	1
	18		19

Second Year

Biology 342	5	Biology 347	4
Chemistry 211	5	Business 151	2
English 211	3	Chemistry 212	5
Mathematics 107	3	Health 202	2
Military Science 201 (Men)		Mathematics 113	3
or		Military Science 202 (Men)	
Elective (Women)	2	or	
	18	Elective (Women)	2
			18

Third Year

Biology 445	2	Biology 303	4
Chemistry 310	5	Biology 446	3
English 212	3	Chemistry 430	3
Physics 131	5	Economics 230	3
Elective	2	Physics 132	5
	17		18

Fourth Year

Work to be taken in an accredited hospital.

PRE-ENGINEERING CURRICULUM

A student may take one or two years of fundamental work at Eastern and then transfer to an engineering college without appreciable loss of credits if he chooses his courses wisely. The pre-professional requirements of a particular college of engineering should be chosen from Mathematics, Chemistry, Physics, and other basic subjects. Every Pre-Engineering student will receive help, upon request, from an advisor.

First Year

First Semester	Hours	Second Semester	Hours
Chemistry 111	4	Chemistry 112	5
English 101	3	English 102	3
Mathematics 107	3	Mathematics 108	2
Mathematics 113	3	Mathematics 232	3
Military Science 101 (Men)		Military Science 102 (Men)	
or		or	
Elective (Women)	2	Elective (Women)	2
Physical Education 115	1	Physical Education 116	1
Orientation 100	1	Physics 107	1
	17	Orientation 101	1
			18

Second Year

Geography 221	3	Economics 230	3
Industrial Arts 191	3	Industrial Arts 292	3
Mathematics 251	5	Mathematics 352	3
Military Science 201	2	Military Science 202	2
Physics 201	6	Physics 202	6
	19		17

SOCIAL WORK

Students who plan to do graduate work in social work or who plan to enter a field of social work with public or private agencies should concentrate on a modified major in the Social Sciences. The work should include Economics, Sociology, Psychology, History, Political Science, and such additional areas as are needed for basic preparation. Opportunities for work are increasing in the child welfare, juvenile institutions, penal institutions, State social agencies, Federal services, the American Red Cross work, and in similar specialties.

PRE-VETERINARY MEDICINE

Since 1950, Kentucky students have had the opportunity of entering veterinary medical training at Auburn University, Auburn Alabama, or at Tuskegee Institute, Tuskegee, Alabama. The State of Kentucky has made this possible through its participation in the Southern Regional Education program.

The State pays \$1,500 per student per year through the Southern Regional Education Board to the institutions. Each year Auburn University holds twelve places and Tuskegee Institute holds two places for entering students from Kentucky. These students must meet admission requirements of the schools. If admitted, Kentucky students have the same status as Alabama students. They do not pay out-of-state tuition.

The minimum education requirement for admission to the School of Veterinary Medicine, Auburn University, is the satisfactory completion of two years of study in an approved accredited college or university. A total of 60 semester hours of college work must be completed with a grade point average of at least 2.75. In addition to the above, applicants are required to meet the military and physical training requirements in effect at the institution attended.

The two years of college work must include:

	Sem. Hrs.		Sem. Hrs.
Freshman English	6	Botany	3
American History	3	*Medical Vocabulary	3
College Algebra	3	General Poultry Husbandry.....	3
General Chemistry	9	Animal Nutrition	4
General Zoology	8	Farm Livestock Production.....	3
Trigonometry	3	Military Science	8
Physics	10	Physical Education	2
Organic Chemistry	10		

Applicants who have completed the requirements for a B. S. degree in Agriculture with a scholastic average of at least 2.75 are qualified for admission.

In the selection of students for admission to the School of Veterinary Medicine the Committee on Admissions gives due consideration to the applicant's background, adaptability to the profession, age, scholastic record, and residence. Personal interviews and aptitude tests may be required.

PRE-LAW CURRICULUM

No fixed, comprehensive pre-law curriculum is usually prescribed in law schools. However, prospective law students should keep in mind that a broad, basic and liberal education will equip one to study law and also prepare him for a vital role in the community once he has acquired his professional training. Thus he should pursue a degree program in pre-law in which he will learn to think clearly, will form sound study habits, and will have an opportunity to master the methodology and knowledge of a particular field under the guidance of good instructors. Courses in accounting, economics, English, history, Latin or a modern foreign language, mathematics, the natural sciences, philosophy, political science, psychology, sociology and speech lend themselves to the breadth of background needed by a law student and a lawyer.

The importance of a sound background in use of the English language cannot be stressed too greatly. A fundamental knowledge of grammar, a good vocabulary, an ability to read rapidly with understanding, an ability to express one's thoughts in a clear and organized fashion, are all absolutely essential to success in the study of law. Any pre-law student who is deficient in English should take immediate steps to correct the situation by taking additional English courses, by seeking remedial help and by self-study. Otherwise he may be seriously handicapped in the study of law and may even jeopardize his admission to law school.

A pre-law student may either complete the degree requirements before applying for admission to a law college or may apply for admission to a law college upon the completion of three academic years of undergraduate work. Eastern has arrangements with a number of law colleges whereby the freshman year in the law college can be transferred to Eastern and applied on the bachelor's degree. By this plan a student may earn both the baccalaureate and law degrees in six academic years. He must meet the following requirements to receive a bachelor's degree from Eastern:

1. He must gain at least 100 semester hours at Eastern, with a standing of 2.3 or more, before transferring to a law school.
2. He must have met the general education course requirements.
3. He must have completed at least 21 semester hours in a major and 15 semester hours in a related minor.
4. He must have been officially registered at this institution at least one full year, thirty-six weeks, immediately preceding the completion of his requirements in this institution, and must have completed at least 36 semester hours in residence at this institution.
5. He must spend at least one academic year in a College of Law approved by the Association of American Law Schools.

6. He must secure sufficient hours in his law courses to bring his total up to 128 semester hours and must secure a standing of at least 2.0 or its equivalent in his law courses.

Pre-law students are advised to select an advisor from one of the following departments: Business; English and Foreign Languages; History, Anthropology and Sociology; Political Science.

PRE-FORESTRY CURRICULUM

Arrangements made through the Southern Regional Education Board provide for students who wish to prepare as professional foresters to do the first two years of their work at Eastern Kentucky State College and complete their training in two years and one summer at North Carolina State College in Raleigh.

First Year

First Semester	Hours	Second Semester	Hours
Biology 131	3	Biology 132	3
Chemistry 111	4	Chemistry 112	5
English 101	3	English 102	3
Mathematics 107	3	Mathematics 113	3
Military Science 101	2	Military Science 102	2
Physical Education 115	1	Physical Education 116	1
Orientation 100	1	Orientation 101	1
	17		18

Second Year

Biology 141	4	Agriculture 215	4
Biology 336	2	Biology 335	2
Economics 230	3	History 247	3
History 246	3	Military Science 202	5
Military Science 201	2	Physics 132	5
Physics 131	5	Sociology 231	3
	19		19

OTHER PRE-PROFESSIONAL CURRICULA

The College affords courses for students who plan to do specialized work in nursing, library science, theology, and in other professional fields.

In addition to standard four-year pre-professional curricula, Eastern may approve specially arranged combined curricula. In these curricula, the student completes three years as outlined at Eastern to meet basic requirements and then transfers a year of successful work from a Grade A professional school in order to secure a B. S. or a A. B. degree from Eastern Kentucky State College. This plan may shorten by one year the time needed for obtaining both a baccalaureate and a professional degree.

* Six semester hours of Modern Language may be substituted for Medical Vocabulary, or this course may be taken by correspondence by applying directly to the Director of Extension Teaching, Auburn, Alabama.

THE LABORATORY SCHOOL

The campus laboratory school enrolls approximately 500 students with a staff of twenty-eight full-time faculty members. It is located in the new Donovan Building. The finest and most recent innovations of school architecture have been incorporated in this splendid building.

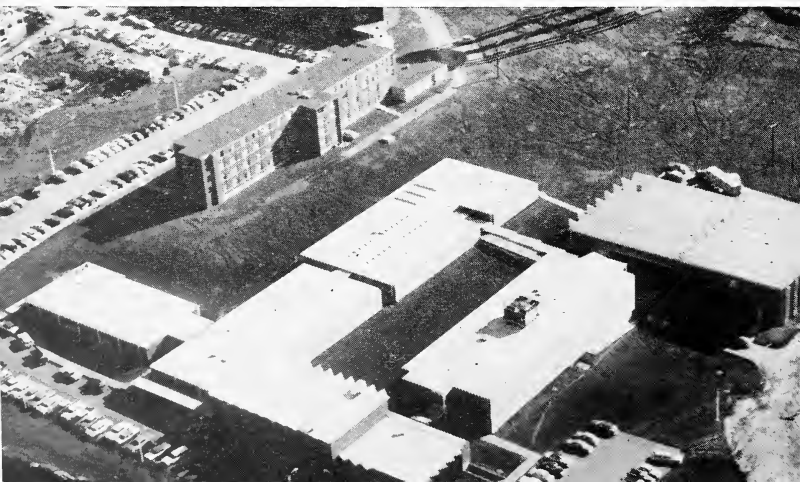
Pupils who attend the campus laboratory school come from the city and county in the surrounding community. The number of pupils for each grade is limited. Listed below are the tuition fees:

Kindergarten	\$72.00 per semester
Grades 1-12	\$20.00 per semester

SUPERVISED STUDENT TEACHING

Student Teaching is done in the campus laboratory school or in affiliated public schools. Students wanting to do Student Teaching must file an application twelve weeks prior to the term in which they are to do their Student Teaching. To be eligible for Student Teaching a student must: (1.) Be recommended by the head of the department in which they are majoring; (2.) have had at least one semester of residence work at Eastern and have placed all college credits on file in the Registrar's Office; (3) have a standing of "C" in their major and minor fields as well as an over-all standing of "C" in all their college work; (4) meet certain standards in general scholarship, use of English, health, personality, and professional attitude.

The Donovan houses 475 students enrolled in the Laboratory School.



THE EXTENSION DIVISION

Eastern offers, through the Extension Division, a variety of courses by correspondence. These courses are prepared and conducted by regular members of the faculty and are, insofar as possible, identical with resident courses. They are especially designed for those who wish to obtain credit toward their certificates or degrees, or for those who want to increase their knowledge while continuing with their regular employment.

Off-campus extension classes are conducted in cities and communities where young people and adults may take college work in class groups under a regular member of the faculty in practically the same way as they would in residence.

Regulations Pertaining to Correspondence-Extension Work

1. Correspondence work may be taken by students enrolled in residence only upon the following conditions:
 - a. Students enrolled in residence at Eastern must secure written approval of the Dean.
 - b. Students enrolled in residence in other colleges or universities must secure written approval of their Dean.
 - c. All high school pupils must secure written approval of their high school principal.
2. The Extension Division assumes no responsibility for courses taken to meet certification, College Entrance, or degree requirements through the institution from which he expects to graduate or through the state education department through which he expects to be certified.
3. Where courses are required for a degree, not more than one-half of the course requirements in any field in general education may be taken by correspondence and extension and not more than six semester hours in a major or minor field may be completed by correspondence and/or extension.
4. Students shall not be allowed to receive credit through extension and/or correspondence for more than six semester hours each semester or twelve semester hours during the regular school year of nine months or sixteen semester hours within a calendar year.
5. The minimum time within which one three-semester-hour course may be completed shall be five weeks; two three-semester-hour courses shall be ten weeks; one two-semester-hour course shall be four weeks; two two-semester-hour courses shall be eight weeks; one three-semester-hour course plus one two-semester-hour course shall be nine weeks.

6. Not more than thirty-two of the total semester hours required for a degree may be earned by extension, off-campus courses, and correspondence combined.
7. Seniors with ninety-two or more semester hours are restricted at Eastern to a maximum of six semester hours by correspondence and/or extension combined since at least thirty of the last thirty-six hours must be done in residence.
8. Students may enroll for not more than two correspondence or extension courses at any one time.
9. Correspondence work will not be accepted toward the completion of a graduate degree.
10. Graduate students may apply not more than six semester hours of off-campus class work toward the completion of the Master's degree.

For further details see the Extension Division Bulletin or write to the Director of Extension.

The University Building is the oldest academic building on the Eastern campus. Recently renovated and remodeled, it houses the J. T. Dorris Museum and several academic departments.



THE GRADUATE DIVISION

PURPOSE

The Graduate Division offers work leading to the degree of Master of Arts in Education. The graduate program is planned to meet the needs of teachers in elementary and secondary schools and to provide graduate education for supervisors, principals, superintendents, attendance officers, counselors, guidance personnel, etc.

TYPES OF STUDENTS

Graduate courses are open to: (1) students who enter and become candidates for the degree of Master of Arts in Education; and (2) students who wish to broaden their education without reference to a graduate degree.

ADMISSION REQUIREMENTS

1. Applicants for admission to the Graduate Division must hold a bachelor's degree from an institution of recognized standing.

2. Official credentials should be filed with the Registrar and with the Associate Dean in charge of Graduate Studies before entrance. These credentials must include, (a) a complete transcript of high school credits; (b) a complete transcript of college or university credits. If the transcript is not on file prior to entrance, admission will be tentative pending receipt and review of credentials.

3. Application for admission to the Graduate Division must be filed by a student with the Associate Dean in charge of Graduate Studies. Admission to the Graduate Division does not necessarily imply admission to candidacy for the degree of Master of Arts in Education.

REQUIREMENTS FOR THE MASTER'S DEGREE

1. A person may receive the degree of Master of Arts in Education when he has completed other requirements set out in these regulations and in addition thereto has completed a four-year curriculum for the education of elementary or secondary teachers as prescribed by the Council on Public Higher Education or holds a certificate based upon four years of standard college preparation and valid for teaching in the state in which it was issued.

2. The student shall have an average standing of 3.0 and no credit shall be granted for a grade below "C".

3. Graduate students may take upper division courses but at least 50 per cent of all course work must be in courses open to graduate students only.

4. Requirements for the degree of Master of Arts in Education may be satisfied by one of the following plans:

Plan I—With a Thesis

The residence requirements shall be 36 weeks. The minimum course credit shall be twenty-four semester hours.

Plan II—Without a Thesis

The residence requirements shall be 36 weeks. The minimum credit shall be 30 semester hours.

5. Every candidate for the degree of Master of Arts in Education shall present a minimum of 9 semester hours of graduate credit in professional education and must have had a minimum of 27 semester hours at the undergraduate level and/or graduate level.

The minimum time in which a student who does not have a minimum of 12 semester hours in education, upon being admitted to the graduate school, shall be 45 weeks to complete course requirements for the degree of Master of Arts in Education.

6. The remainder of the course work shall be determined by the institution in terms of the student's need, provided that it shall be upper division and/or graduate courses.

7. The student shall pass a final examination on all fields presented toward fulfillment of requirements for the degree of Master of Arts in Education.

8. Teachers holding what would ordinarily be considered a full-time position shall not be permitted to receive graduate credit for more than 4 semester hours during any semester.

9. Residence credit for part-time study at the graduate level shall be $1\frac{1}{2}$ weeks for each semester hour of credit and shall apply to students who carry less than a minimum full-time load.

10. One-half of the course requirements and one-half of the residence work shall be done as a full-time graduate student. In evaluating residence credits a summer term of 8 weeks with a minimum load of 6 semester hours of credit shall be regarded as 9 weeks in residence.

11. The average graduate student, unless special approval is secured from the Dean, should take a load ranging from 12 to 16 hours per semester with a maximum of 8 hours per summer term of 8 weeks.

12. Part-time graduate students with full-time positions are advised to take loads ranging from 2 to 4 hours per semester and are expected to meet the high standards prescribed for full-time students.

13. Twelve hours of graduate work earned on a part-time basis shall entitle the student to one semester of residence.

14. Those graduate students who plan to take the degree of Master of Arts in Education will be expected to take a comprehensive qualifying examination before they have proceeded very

far with their graduate program. The results of this examination will be used as a basis for guidance.

15. The student should have a graduate committee appointed during the first semester or summer term that he is a student at Eastern. The chairman of his graduate committee will act as his advisor.

16. A student preparing for the secondary certificate must select a major field of interest in which he has at least a minor of eighteen hours. If he does not have a minor, he will be required to take work at the undergraduate level sufficient to make the minor.

17. The Master's degree shall not be granted to one who does not have at least thirty hours in his major field, including both graduate and undergraduate work.

18. A graduate student is expected to complete requirements for the degree no later than eight years after beginning course work. In cases of hardship the time limit may be extended to ten years with the approval of the Graduate Council.

SEMINAR REQUIREMENTS

Seminars or research courses are required of graduate students. Two types of seminar are provided: (1) for graduate students who prepare a Master's thesis and (2) for students who do not prepare a thesis.

THE THESIS

The thesis should show, among other things, the following characteristics: (a) ability of the candidate to work independently on an approved problem; (b) a reasonable familiarity with the literature of the field of specialization; (c) a practical working knowledge of research methods; and (d) conclusions justified by supporting data.

The thesis must conform to regulations approved by the Graduate Council for writing theses. Two typewritten copies of the thesis must be filed in the College Library at least one week before the degree is conferred.

EXAMINATIONS

Before the graduate student can become a candidate for the Master's degree he must take a preliminary or qualifying examination. This examination is given each semester and each summer term. At least one-half of the work required for the degree must be completed after the qualifying examination.

The graduate student shall, upon official notification, pass an oral and/or written examination on his major, his minor fields, and his thesis.

APPLICATION FOR DEGREE

A student planning to receive the Master's degree in June should file application before the end of the first semester. August candidates should file application not later than the beginning of the second semester. Applications should be filed in the office of the Associate Dean in charge of Graduate Studies. Fees are to be paid at the Business Office and receipts presented in the office of the Associate Dean in charge of Graduate Studies.

CURRICULA

The institution has worked out specific curricula for the following certificates: Standard Elementary Certificate, Standard High School Certificate, Provisional Certificate for Principalship, Provisional Certificate for Supervisor, Provisional Certificate for Superintendent, and Provisional Certificate for Guidance Counselor. Elementary and secondary teachers may take work leading to Rank I.

Information concerning these curricula may be obtained from the Associate Dean of Instruction in charge of Graduate Studies.



Role of the college professor is to challenge the intellectual curiosity of the student.

AREAS OF CONCENTRATION

Eastern offers areas of concentration in the following fields:

Business Education	Home Economics
Earth Science	Industrial Arts
Elementary Education	Music
English	Science
Foreign Languages	Social Science
Health, Physical Education, and Recreation	

Eastern offers majors in the following subjects:

Art	Industrial Arts
Biology	Latin
Business	Mathematics
Chemistry	Music
English	Physical Education
French	Physics
Geography	Political Science
German	Spanish
History	

Eastern offers minors in the following fields:

Agriculture	Health
Art	History
Biology	Home Economics
Business	Latin
Chemistry	Library Science
Drama	Mathematics
Economics	Music
English	Physical Education
French	Physics
Geography	Political Science
Geography and Geology	Spanish
Geology	Speech
German	



Courses of Instruction

Agriculture	69
Art	73
Biology	77
Business	84
Economics	96
Chemistry	99
Education	103
English	115
Drama	122
Speech	122
French	125
Geography & Geological Sciences	126
German	133
Health	134
History	135

Home Economics	141
Industrial Arts	145
Latin	154
Library Science	156
Mathematics	158
Military Science	164
Music	170
Orientation	181
Physical Education	182
Physics	188
Political Science	193
Psychology	197
Science	198
Social Science	200
Spanish	204

PART FIVE

The Departments of Instruction on the following pages are arranged in alphabetical order. Schedules are prepared on the basis of recommended curricula. Students who follow the recommended curricula will avoid most conflicts.

AGRICULTURE

The University of Kentucky and the Eastern Kentucky State College are cooperating in the preparation of Vocational Agriculture teachers and in providing other training in Agriculture.

In accordance with this plan, Eastern will offer two years of the curriculum leading to the degree in Agriculture at the University of Kentucky. Hours earned beyond the sophomore level may not be transferable. Upper division courses are offered for the convenience of students who plan to graduate at Eastern with a field or minor in Agriculture.

All courses given in the Eastern Kentucky State College will constitute a part of the regular program of instruction of the College of Agriculture and Home Economics of the University of Kentucky and will carry both course and residence credit toward the degree of Bachelor of Science in Agriculture awarded by the College of Agriculture and Home Economics.

AGRICULTURE

(Recommended curriculum for a major in Agriculture)

First Year

First Semester	Hours	Second Semester	Hours
Agriculture 125	3	Agriculture 126	3
Agriculture 130	3	Agriculture 131	3
Biology 131	3	English 102	3
English 101	3	Mathematics 107	3
Military Science 101	2	Military Science 102	2
Physical Education 115	1	Physical Education 116	1
Orientation 100	1	Orientation 101	1
	<hr/> 16		<hr/> 16

Second Year

Agriculture 211	3	Agriculture 223	3
Agriculture 243	3	Agriculture 241	3
Chemistry 111	4	Chemistry 112	5
Economics 230	3	Military Science 202	2
Military Science 201	2	Speech 131	3
Elective	2		
	<hr/> 17		<hr/> 16

Recommended Curriculum for a Minor in Agriculture

A student with a major and minor in other departments may take a minor in Agriculture by completing eighteen hours approved by the head of the department.

AGRICULTURE

LOWER DIVISION COURSES

Agriculture 121. Breeds of Livestock. Three hours.

A survey of the different kinds of farm livestock which includes origin, development, outstanding characteristics, and the strong and weak points of each breed. This course will more fully acquaint the student with the breeds of livestock that are currently being used in commercial production. Two hours lecture and two hours laboratory.

Agriculture 125. (Formerly Agriculture 25.) Farm Livestock Production. Three hours.

Importance and use of livestock products; present types; market classes and grades of beef cattle, sheep, swine, horses and mules; the origin, development, and characteristics of the more important breeds. Lecture three hours, laboratory one hour.

Agriculture 126. (Formerly Agriculture 11.) Farm Poultry Production. Three hours.

Principles of poultry husbandry; breeds and poultry improvement; selection and culling; incubation and brooding; feeding, housing and disease control; marketing poultry products. Lecture three hours, laboratory one hour.

Agriculture 129. Livestock Management. Two hours.

Intensive training in livestock management practices with emphasis on the preparation of animals for show or sale. Laboratory four hours.

Agriculture 130. Introduction to Agronomy. Three hours.

This course touches very briefly upon the many broad areas of agronomy so that the student may better understand the relationship that exists between them. This will give a foundation of general information upon which the specific courses in crop production and soils may be built. Lecture three hours.

Agriculture 131. (Formerly Agriculture 12.) General Horticulture. Three hours.

A study of the basic principles of fruit and vegetable production; hot bed and cold frame management; garden and orchard planning. Lecture three hours.

Agriculture 152. (Formerly Agriculture 352.) Farm Motors. Three hours.

Operation and repair of motors, tractors and tractor equipment. Fundamental principles governing the selection and care of this equipment on the farm. Lecture one hour, laboratory four hours.

Agriculture 200. Apiculture. Three hours.

The anatomy of the honey bee; the colony, location and equipment of the apiary; production of comb and extracting honey; diseases and enemies of bees; observation and manipulation of beekeeping equipment. Lecture two hours, laboratory two hours.

Agriculture 211. (Formerly Agriculture 20.) Elementary Farm Crops. Three hours.

A study of field crop production; pasture management; weed control; crop rotation; inoculation; tillage; and seed selection. Lecture three hours.

Agriculture 215. (Formerly Agriculture 30 and 315.) Soils. Four hours.

Prerequisite: Two semesters of general chemistry.

Soil origin, classification, and properties; soil conservation; soil micro-organisms; organic matter; soil water; soil minerals; lime; commercial fertilizers; soil erosion; and soil management. Lecture three hours, laboratory two hours.

Agriculture 221. (Formerly Agriculture 31 and 321.) Principles of Animal Nutrition. **Four hours.**

Prerequisite: Chemistry 111.

Digestion, absorption, assimilation and utilization of nutrients by domestic animals; principal feeds, rations and nutritive ratios. Lecture three hours, laboratory two hours.

Agriculture 223. (Formerly Agriculture 21.) Farm Dairying. **Three hours.**

Milk as a food; market milk; milk sanitation; dairy inspection; bacteriology of milk; scoring milk and cream; laboratory tests for various dairy products, production costs, pasteurization; refrigeration. Lecture two hours, laboratory two hours.

Agriculture 225. Judging Dairy Cattle. **Three hours.**

Prerequisite: Agriculture 223.

Selection of sires, cows, heifers with due consideration for breed and dairy type; application of principles involved in the problem of herd improvement. Laboratory six hours.

Agriculture 228. Animal Hygiene. **Three hours.**

A study of the measures designed to promote health and prevent diseases of livestock. Special consideration given to feed and water, housing and ventilation, yards and pastures, sanitation and environment. Lecture three hours.

Agriculture 240. (Formerly Agriculture 440.) Soil Conservation. **Three hours.**

Prerequisite: Agriculture 215.

Conservation of soils and their fertility; erosion and control; soil conservation methods for individual farms. Lecture three hours.

Agriculture 241. (Formerly Agriculture 41 and 441.) Agricultural Economics. **Three hours.**

The problems of economics as applied to agriculture; a study of the agricultural industry from historic, geographic and economic approaches. Lecture three hours.

Agriculture 243. (Formerly Sociology 14.) Rural Sociology. **Three hours.**

Historical backgrounds; movements, resources, and problems of rural communities; rural-urban relationships; rural people; problems of rural youth; agriculture and its problems of adjustment; community organizations and institutions; adult education; public health; rural recreation; social welfare; community organization and local government; relationship of the school to other institutions and agencies of the rural community; location and use of educational materials and resources of the community; state and national policies for the improvement of rural society. Lecture three hours.

Agriculture 250. (Formerly Agriculture 23.) Farm Shop. **Three hours.**

Care and repair of farm tools; tool grinding; soldering; painting; concrete work; shop exercises in the construction of farm equipment. Lecture one hour, laboratory four hours.

Agriculture 251. (Formerly Agriculture 24.) Farm Structural Engineering. **Three hours.**

The construction, care and repair of farm buildings and equipment. Includes study and practice in farm surveying; drainage; terracing; and exercises involving the use of the transit and level. Lecture one hour, laboratory four hours.

Agriculture 252. (Formerly Agriculture 34.) Mechanics of the Farmstead. **Three hours.**

Selection and care of farm machinery; electric motors; power transmission; care and repair of electric equipment in the home and on the farm. Lecture one hour, laboratory four hours.

Agriculture 261. Elementary Landscape. **Three hours.**

A consideration of the elementary principles of landscape as applied to the planting of urban home grounds and farmsteads.

UPPER DIVISION COURSES

(Open to Junior and Senior Students)

Agriculture 300. General Agriculture. Three hours.

This course consists of a broad general study of soils, cereal and forage crops, livestock, poultry and vegetables. It is designed for students not majoring in Agriculture who would like to make a general, introductory study of agriculture.

Agriculture 304. (Formerly Health 31.) Dairy Bacteriology. Five hours.

Prerequisite: Biology 303.

A study of the practices and principles in dairy and food products; bacterial analysis of dairy and food products; sanitation on the farm. Lecture two hours, laboratory four hours.

Agriculture 312. Advanced Crops: Forage Crops. Three hours.

Prerequisites: Agriculture 211.

A study of the practices and principles of forage crops, especially grasses and legumes suited to Kentucky farms. Lecture three hours.

Agriculture 324. (Formerly Agriculture 22 and 224.) Dairy Cattle Management. Three hours.

Prerequisite: Agriculture 221.

Dairy cattle breeds; judging; feeding; calf raising; pedigrees; production; testing; dairy barn construction; equipment. Lecture three hours.

Agriculture 327. (Formerly Agriculture 44 and 227.) Beef Production. Three hours.

Prerequisites: Agriculture 125 and 221.

History and importance of the beef cattle industry; selection, breeding, feeding and management of beef cattle. Lecture two hours, laboratory two hours.

Agriculture 328. (Formerly Agriculture 26 and 228.) Pork Production. Three hours.

Prerequisites: Agriculture 125 and 221.

Types and breeds of swine; selection; breeding; feeding; disease control. Lecture two hours, laboratory two hours.

Agriculture 329. Sheep Production. Three hours.

Prerequisites: Agriculture 125 and 221.

History and importance of the sheep industry; selection, breeding, feeding and management of sheep; production and handling of wool. Lecture two hours, laboratory two hours.

Agriculture 345. (Formerly Agriculture 32.) Farm Management. Three hours.

Prerequisites: Economics 230 and Agriculture 241.

Factors affecting the organization and management of farms; cost of production; profits; types of farming; soil management; cropping systems; livestock enterprises; farm labor; rental agreements; farm machinery and equipment; farm layout. Lecture three hours.

Agriculture 347. (Formerly Agriculture 33.) Farm Accounting. Three hours.

The fundamental principles of accounting applied to farm accounts; financial statements; depreciation; production costs. Lecture three hours.

Agriculture 442. Marketing. Three hours.

Prerequisite: Agriculture 241.

A study of the problems involved in marketing farm produce; livestock markets; classes and functions of middlemen; grading and standardization; wholesaling and retailing; transportation and storage; financing; prices; speculation; cooperative markets. Lecture three hours.

ART

(Recommended curriculum for a major in Art with right of teaching certificate)

First Year

First Semester	Hours	Second Semester	Hours
Art 117	3	Art 118 or Art 201	3
English 101	3	English 102	3
Military Science 101 (Men)		Military Science 102 (Men)	
or		or	
Elective (Women)	2	Elective (Women)	2
Physical Education 115	1	Physical Education 116	1
Science 111	3	Science 112	3
Social Science 100	3	Social Science 101	3
Orientation 100	1	Elective	2
		Orientation 101	1
	<hr/> 16		<hr/> 18

Second Year

Art 200	3	Art 217	3
Art 202	3	Art 260	3
English 211	3	Education 202	2
History 246	3	English 212	3
Military Science 201 (Men)		History 247	3
or		Military Science 202 (Men)	
Elective (Women)	2	or	
Elective	3	Elective (Women)	2
		Psychology 211	3
	<hr/> 17		<hr/> 19

Third Year

Art 361	3	Art 227	3
Art 390	3	Art 391	3
Education 315	2	Education 316	2
Health 201	3	Science 110	3
Science 109	3	Elective	6
Elective	3		
	<hr/> 17		<hr/> 17

Fourth Year

Art 322	3	Art 461	3
Art Elective	3	Education 364	4
Education 384	2	Education 463	10
Elective	9		
	<hr/> 17		<hr/> 17

Recommended Curriculum for a Second Major in Art

A student with a first major in some other department may take the following courses for a second major in Art: 117, 118 or 201, 200, 202, 217, 260, 322, 361 or 461, 390.

Recommended Curriculum for a Minor in Art

A student with a major and a minor in other departments may take the following courses for a minor in Art: 117, 118, 200 or 260, 201 or 202, 322, 390.

ART

LOWER DIVISION COURSES

Art 117. (Formerly Art 10.) Drawing and Design. **Three hours.**

Orientation of the student to the basic knowledges and skills in art through the use of pencil, tempera, water color, and colored chalks. This foundation course is planned to develop an understanding and appreciation of the principles of creative design as applied to the visual arts.

Art 118. (Formerly Art 11.) Art Media. **Three hours.**

Prerequisite: Art 117, or a similar course in introductory art.

Designed to meet individual needs and abilities in a variety of problems in landscape, still life and figure drawing; media—charcoal, pen and ink, pastels, water color, tempera, pencil and oils.

Art 200. (Formerly Art 22.) Art Appreciation: Orientation. **Three hours.**

Designed to establish a basis for judgment and good taste in the consideration and use of art in daily living through the study of examples of architecture, sculpture, painting, weaving, the art of the book, and ceramics.

Art 201. (Formerly Art 20.) Drawing, Painting, and Composition. **Three hours.**

Prerequisite: Art 117.

Emphasizing technical skill and creative ability in the use of charcoal, pastels, oils, and water colors; study of still life; outdoor sketching; figure composition; artistic anatomy.

Art 202. (Formerly Art 21.) Ceramics and Ceramics Sculpture. **Three hours.**

Prerequisite: Art 117.

Creative experience in three dimensional composition given for the purpose of developing a stronger sense of plastic form; objects molded by hand, and on the potter's wheel.

Art 217. (Formerly Art 23.) Lettering and Poster Design. **Three hours.**

Development of ability to apply art principles in the production of hand lettering; lettering structure; spacing; poster design.

Art 218. Advanced Lettering and Commercial Design. **Three hours.**

Prerequisite: Art 217.

Designed to meet the needs of those who wish to pursue lettering as a commercial phase of art; problems in block printing and silk screen; folders and advertising layout.

Art 219. Design. **Three hours.**

Formal drill in the elements of design to meet the needs of the student who wishes to become more efficient in the creative experience in structural and decorative design.

Art 220. (Formerly Art 24.) Problems in Interior Design. **Three hours.**

Prerequisite: Art 117.

A survey of the principles of design in all interiors; art elements—color, form, and line in furniture and furnishings; problems in house plans and blue-print reading.

Art 227. (Formerly called Applied Design.) Structural Design. **Three hours.**

Prerequisite: Art 117, or its equivalent.

Development of craftsmanship in the use of design in carving wood, stone, clay, plaster, soap, leather. Sculptures in the round, in relief, and mobiles are analyzed for the purpose of improving the student in techniques of carving.

Art 228. Crafts Design. Three hours.

Prerequisite: Art 117.

This course emphasizes design in jewelry, textile printing, leather tooling, block printing, and enameling.

Art 260. (Formerly Art 26.) Public School Art. Three hours.

Designed to meet the needs of the classroom teacher in understanding the place of art in the general curriculum of the elementary school by correlation and integration, and by appreciation as a special subject. Problems are used to develop art skills, and to enable the teacher to understand the interests and abilities of the child.

UPPER DIVISION COURSES

(Open to Junior, Senior, and Graduate Students)

Art 321. (Formerly Art 30.) Drawing and Illustration. Three hours.

Prerequisite: Art 117.

Emphasizing skill in drawing and illustration of ideas; specific study of perspective; pictorial composition; illustration of stories; murals; media—pencil, charcoal, water color, and ink.

Art 322. (Formerly Art 31.) Color and Design. Three hours.

Prerequisite: Art 117.

Color theory as related to pigments and sensation; practical color notation; application of color in design.

Art 361. (Formerly Art 36.) Art Education in the Elementary School. Three hours.

Prerequisite: Art 260.

Designed to give teachers a knowledge of the theory and practice of art in their school problems; unit planning; materials and methods.

Art 390. Art Appreciation: Survey. Three hours.

Prerequisite: Art 200.

Egyptian, Tigris-Euphrates Valley, Aegean, Greek, Etruscan and Roman, Far Eastern, Art of Early Americas, Early Christian-Byzantine, Romanesque, Gothic.

Art 391. Art Appreciation: Survey. Three hours.

Continuation of Art 390, beginning with the Renaissance and ending with the art of today.

Art 421. (Formerly Art 40.) Advanced Drawing, Painting and Design. Three hours.

Studio practice in drawing, painting and design; orchestration of colors; research in artist's media—charcoal, pastel, oil, and water color.

Art 422. (Formerly Art 41.) Advanced Pictorial Composition. Three hours.

Painting from nature; field trips; studio criticism; creative design problems in decorative landscape and figure composition—pencil, pastel, water color, oil, and tempera.

Art 423. (Formerly Art 42.) Art Appreciation: Architecture and Sculpture. Three hours.

Prerequisite: Art 390.

Achievements in architecture and sculpture of the following periods: Prehistoric, preclassical, Greek, Roman, Early Christian, Byzantine, Romanesque, Gothic, Renaissance, American, and contemporary.

Art 424. (Formerly Art 43.) Art Appreciation: Painting. **Three hours.**

Prerequisite: Art 390.

Great periods and masters of painting: Italian, Flemish, German, Spanish, Dutch, English, French, and American.

Art 425. Advanced Water Color Painting. **Three hours.**

Prerequisite: Art 117 and 118, or 201, 421 or 422.

Designed to meet the needs of students who wish to develop further the technique of water color painting. Practice in the various approaches to water color painting by study of the great water colorists and their work. Outdoor work, still life arrangements in creative design and studio criticism.

Art 461. (Formerly Art 46.) The Arts in the High School. **Three hours.**

Prerequisites: Art 117 and 260.

Survey of art in the secondary schools for the purpose of examining the theories and practices in the rural and city high schools. Practice in planning units and courses of study which will give an understanding of our heritage in the arts, and an appreciation of art in daily living.

Art 462. Art Appreciation: Art Principles. **Three hours.**

Prerequisite: Art 424.

Designed for the study of aesthetic standards in architectural, sculptural and pictorial composition; current art principles; taste and evaluation; analysis of selected examples of art.

Art 463. Problems in Art. **One to three hours.**

Designed to meet the needs of students who wish to continue certain art projects started in other courses. Problems in painting, design, ceramics, and problems in research in the arts are considered. Limited to seniors and graduate students.

GRADUATE DIVISION COURSES

Art 501. Art Appreciation: Great Periods and Their Influences. **Three hours.**

Prerequisite: Six hours in Art.

A course for graduate students who want to pursue art study as it is applied to the examination of the arts and ideas of great periods of development in the Western world.

Art 502. The Art Program in the Public School. **Three hours.**

Prerequisite: Six hours in Art.

A study of the origin, trends, philosophy, and current practices in the art programs of the public schools. Types of programs in the elementary and secondary school will be considered and evaluated. Special attention will be given to program planning, selection and procurement of materials and art room facilities, preparation of teaching personnel, and in-service workshops.

BIOLOGY

(Recommended curriculum for a major in Biology with right of teaching certificate)

First Year

First Semester	Hours	Second Semester	Hours
Biology 131 or 141	3 or 4	Biology 132 or 142	3 or 4
English 101	3	English 102	3
Mathematics 107		Mathematics 113	
or		or	
Chemistry 111	3 or 4	Chemistry 112	3 or 5
Military Science 101 (Men)		Military Science 102 (Men)	
or		or	
Elective (Women)	2	Elective (Women)	2
Physical Education 115	1	Physical Education 116	1
Social Science 100	3	Social Science 101	3
Orientation 100	1	Orientation 101	1
	16 or 18		16 or 19

Second Year

Biology 131 or 141	3 or 4	Biology 132 or 142	3 or 4
Chemistry 111 or		Chemistry 112 or	
Mathematics 107	3 or 4	Mathematics 113	3 or 5
English 211	3	Education 202	2
Military Science 201 (Men)		English 212	3
or		Military Science 202 (Men)	
Elective (Women)	2	or	
*Elective in Humanities	3	Elective (Women)	2
Elective	2	Psychology 211	3
	16 or 18		16 or 19

Third Year

Biology 303	4	Biology 335	2
Biology 325	3	Biology 481	4
Education 315	2	Education 316	2
History 246	3	History 247	3
Physics 131	5	Physics 132	5
	17		16

Fourth Year

Biology 351	3	Biology 471	3
Health 201	3	Education 364	4
*Elective in Humanities	3	Education 463	10
Elective	7		
	16		17

Recommended Curriculum for a Second Major in Biology

With right of teaching certificate.—A student with a first major in some other department may take the following courses for a second major in Biology: Biology 131, 132, 141, 142, 325, 303 or 332 or 342, 335, 351, 481, and nine hours of Chemistry or ten hours of Physics.

Recommended Curriculum for a Minor in Biology

A student with a major and a minor in other departments may take the following courses for a minor in Biology: Biology 131, 132, 141, 142, 325, 335 or 351, 481, and four hours of Chemistry or five hours of Physics.

*Electives to include six hours chosen from the following courses: Art 200, Art 390, Art 391, Foreign Language six hours, History 498, History 499, Music 271, Music 371, Music 372.

BIOLOGY

(Recommended curriculum for a major in Biology without right of teaching certificate)

First Year

First Semester	Hours	Second Semester	Hours
Biology 131 or 141	3 or 4	Biology 132 or 142	3 or 4
English 101	3	English 102	3
Mathematics 107 or		Mathematics 113 or	
Chemistry 111	3 or 4	Chemistry 112	3 or 5
Military Science 101 (Men)		Military Science 102 (Men)	
or		or	
Elective (Women)	2	Elective (Women)	2
Physical Education 115	1	Physical Education 116	1
Social Science 100	3	Social Science 101	3
Orientation 100	1	Orientation 101	1
	16 or 18		16 or 19

Second Year

Biology 131 or 141	3 or 4	Biology 132 or 142	3 or 4
Chemistry 111 or		Chemistry 112 or	
Mathematics 107	3 or 4	Mathematics 113	3 or 5
English 211	3	English 212	3
History 246	3	History 247	3
Military Science 201 (Men)		Military Science 202 (Men)	
or		or	
Elective (Women)	2	Elective (Women)	2
Elective	2	Elective	2
	16 or 18		16 or 19

Third Year

Biology Elective	4	Biology Elective	4
Physics 131	5	Health 201	3
*Elective in Humanities	3	Physics 132	5
Elective	4	*Elective in Humanities	3
	16	Elective	2
			17

Fourth Year

Biology Elective	3	Biology Elective	3
Electives	13	Electives	13
	16		16

Recommended Curriculum for a Second Major in Biology

Without right of teaching certificate.—A student with a first major in some other department may take the following courses for a second major in Biology: Biology 131, 132, 141, 142, and 14 hours elective in Biology; nine hours of Chemistry or ten hours of Physics.

*Electives to include six hours chosen from the following courses: Art 200, Art 390, Art 391, Foreign Language six hours, History 498, History 499, Music 271, Music 371, Music 372.

BIOLOGY

LOWER DIVISION COURSES

Biology 131. (Formerly Biology 121.) General Botany I. Three hours.

An introductory study of the structure, physiology and ecology of higher plants, with emphasis on basic biological principles. Two lectures and two laboratory hours.

Biology 132. (Formerly Biology 121) General Botany II. Three hours.

Prerequisite: Biology 131, or Science 111 and 112.

An introductory study of phylogeny, genetics, ecology, economics and evolution of plants, with emphasis on basic biological principles. Two lectures and two laboratory hours.

Biology 141. (Formerly Biology 122.) General Zoology I. Four hours.

An introductory study of the structure, physiology, ecology, phylogeny and economics of animals, with emphasis on basic biological principles. Two lectures and four laboratory hours.

Biology 142. (Formerly Biology 122.) General Zoology II. Four hours.

Prerequisite: Biology 141.

A continuation of Biology 141, General Zoology I. Two lectures and four laboratory hours.

Biology 200. Photography. Two hours.

Prerequisite: Permission of instructor. Does not count as credit toward a degree in biology.

The theory and use of cameras, films, filters; the theory and practice of developing, fixing, printing, enlarging, reducing and lantern slide making. One lecture hour and three laboratory hours.

Biology 219. (Formerly Biology 29 and 29h.) Physiology. Three hours.

Offered for home economics students and physical education students. Credit does not apply toward a major in Biology.

Prerequisite: Science 111.

Fundamental principles of human physiology, with emphasis on the functioning of the circulatory, respiratory, digestive, and excretory systems. Three lecture hours.

Biology 225. (Formerly Biology 25.) Applied Anatomy. Three hours.

Prerequisite: Science 111 and 112 or Biology 141 and 142.

Anatomy of the human body, with emphasis on the skeleton, muscles and nervous system and their function in physical exercise. One lecture and four laboratory hours.

Biology 229. (Formerly Biology 29.) Human Physiology. Four hours.

Prerequisite: Biology 141 and 142 and Chemistry 111.

A study of the functions of the circulatory, respiratory, digestive, excretory, endocrine, nervous and reproductive systems. Two lectures and four laboratory hours.

UPPER DIVISION COURSES

(Open to Junior, Senior, and Graduate Students)

Biology 303. (Formerly Health 303.) General Bacteriology. **Four hours.**

Prerequisite: Chemistry 111, 112 or Biology 131 and 132.

Study of the morphology, classification and physiology of bacteria; relation of bacteria to fermentations, foods, soil fertility, disease, and industry; methods of culture and of study, media, sterilization, staining techniques. Two lecture hours, and four laboratory hours.

Biology 310. Human Heredity and Eugenics. **Three hours.**

Credit does not apply toward a major in Biology.

A study of inheritance in humans including its implications upon society and the human race. Three lecture hours.

Biology 325. (Formerly Biology 35.) Genetics. **Three hours.**

Prerequisite: Science 112 or Biology 132 or 142.

Laws governing inheritance, variations and evolution in plants, animals and man; the role of heredity in the improvement of cultivated plants, domesticated animals and the human race. Three lecture hours.

Biology 334. (Formerly Biology 32.) Plant Physiology. **Three hours.**

Prerequisite: Biology 131 and 132.

A study of the chemical, physical and biological processes which occur in vascular plants. Six lecture-demonstration-laboratory hours.

Biology 335. (Formerly Biology 30.) Local Flora. **Two hours.**

Prerequisite: Biology 131 and 132.

The identification, classification and phylogeny of vascular plants; principles of taxonomy; field trips required. Four laboratory hours.

Biology 336. (Formerly Biology 31.) Woody Plants. **Two hours.**

The identification and classification of local trees and shrubs; key construction. Four laboratory hours.

Biology 342. (Formerly Biology 27 and 28.) Comparative Anatomy. **Five hours.**

Prerequisite: Biology 141 and 142.

Chordate characteristics and taxonomy; comparative anatomy of the principle organ systems; emphasis in laboratory upon lower chordate, fish, amphibian, bird and cat. Three lecture and four laboratory hours.

Biology 343. (Formerly Biology 37.) Entomology. **Three hours.**

Prerequisite: Biology 141 and 142.

Taxonomy, identification, life histories, physiology, economic importance, methods of control and collection of insects, with emphasis on local forms. One lecture and four laboratory hours.

Biology 344. (Formerly Biology 38; formerly called Bird Study) Ornithology. **Two hours.**

Identification, anatomy, physiology, economic importance and natural history of birds. Early morning field trips will be required. One lecture, two laboratory hours.

Biology 347. (Formerly Biology 47.) Embryology. **Four hours.**

Prerequisite: Biology 342.

Detailed study of the embryology of the starfish, frog, and chicken, with some consideration of mammalian embryology. Two lecture and four laboratory hours.

Biology 351. Vertebrate Natural History. Three hours.

Prerequisite: Biology 142.

Lectures, laboratory and field exercises on the taxonomy, evolution, distribution, morphology, behavior, adaptations, habits and life histories of fishes, amphibians, reptiles and mammals. One lecture and four laboratory-discussion hours.

Biology 360. Fundamentals of Biology I. Four hours.

General principles of biology, including studies in Morphology, Anatomy, Physiology, Ecology, Heredity and Evolution of plants and animals. Lecture two hours; laboratory and discussion four hours.

Biology 401. Biology for High School Teachers I. Three hours.

Prerequisite: One year of college biology.

Basic principles of botany and zoology which will be of special interest to in-service teachers of science; modern concepts and recent discoveries in biology; new approaches to biology at the high school level. Lecture two hours, laboratory and discussion two hours.

Biology 402. Biology for High School Teachers II. Three hours.

A continuation of Biology 401. Lecture two hours, laboratory and discussion two hours.

Biology 421. Morphology of Non-Vascular Plants. Three hours.

Prerequisite: Biology 132.

The morphology, anatomy, reproduction, development and unusual biological activities of the algae, fungi, liverworts and mosses. One lecture and four laboratory-discussion hours.

Biology 422. Morphology of Vascular Plants. Three hours.

Prerequisite: Biology 132.

The morphology, anatomy, reproduction, development and geological history of psilophytes, club mosses, horsetails, ferns, cycads, conifers and flowering plants. One lecture and four laboratory-discussion hours.

Biology 433. Economic Plants. Three hours.

The economic importance of plants and plant products; the utility of plants in relation to wood products, textiles, foods, condiments, beverages, drugs, poisons; the role of plants in ornamentation, conservation and world events. Three lecture hours.

Biology 441. (Formerly Biology 44.) Invertebrate Zoology. Four hours.

Prerequisite: Biology 141 and 142.

Characteristics, life histories, taxonomy, ecology and evolution of the invertebrates. Two lecture and four laboratory hours.

Biology 444. (Formerly Biology 45.) Parasitology. Three hours.

Prerequisite: Biology 141 and 142.

The morphology, life histories, epidemiology and methods of diagnosis and control of animal parasites, with emphasis upon those of man and domesticated animals. Two lecture and three laboratory hours.

Biology 445. Microtechnique. Two hours.

Prerequisite: Biology 141 and 142 or Biology 131 and 132.

The technique of preparing plant and animal tissues for microscopic study. Four laboratory hours.

Biology 446. Histology. Three hours.

Prerequisite: Biology 342.

The microscopic study of animal tissues and an introduction to organology. One lecture hour and four laboratory hours.

Biology 451. Ecology. Three hours.

Prerequisite: Biology 131, 132, 141, 142.

The relation of plants and animals to their environment. Field trips required. Two lecture hours, three laboratory hours.

Biology 471. The Teaching of Biology. Three hours.

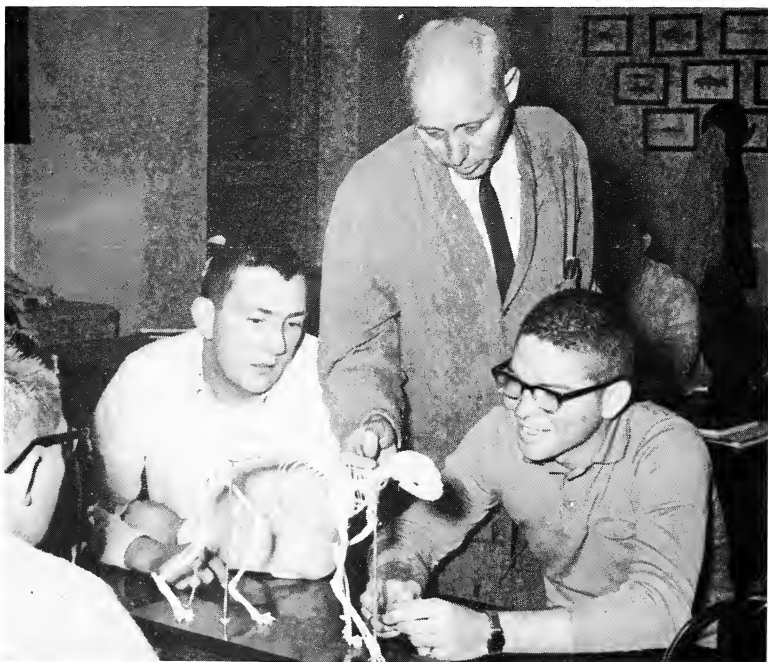
Prerequisite: 18 hours of biology and approval of head of department.

Materials and methods in teaching biology in secondary schools; modern approaches to biology; the organization, planning, directed observation, execution and evaluation of the classroom and laboratory activities; the sources, preparation, and use of biological materials; planning, construction, care and use of equipment; conduction of field trips.

Biology 481. (Formerly Biology 48.) Animal Physiology. Four hours.

Prerequisite: Biology 141, 142 and Chemistry 111.

Detailed study of the chemistry and physics of the physiological activities of animals. Two lecture and four laboratory hours.



Students receive expert instruction in all areas of an expanding curriculum.

Biology 491. (Formerly Biology 49.) Problems in Biology. One to four hours.

Prerequisite: Departmental permission.

The individual study of special problems in biology.

Biology 499. Biology Seminar. One hour.

Prerequisite: Major in biology and five semesters of college credit.

Required of all biology majors. Members of the faculty and majors will meet weekly for presentation and discussion of classical and current developments in specialized fields of biology.

GRADUATE DIVISION COURSES

Biology 501. Advanced Botany I. Three hours.

Individual study in one or two fields of botany selected to meet the specific needs of the student. Topics may be selected from such areas as anatomy, physiology, taxonomy, mycology, morphology, and ecology. Laboratory work will be stressed. Six lecture-discussion-laboratory hours.

B'ology 502. Advanced Botany II. Three hours.

A continuation of Biology 501.

Biology 503. Advanced Zoology I. Three hours.

Individual study in one or two fields of zoology selected to meet the specific needs of the student. Topics may be selected from such areas as morphology, physiology, taxonomy, ecology, invertebrate zoology, anatomy, and embryology. Laboratory work will be stressed. Six lecture-discussion-laboratory hours.

Biology 504. Advanced Zoology II. Three hours.

A continuation of Biology 503.

Biology 505. Principles of Biology I. Three hours.

A study of the basic principles of biology and the history of their development. Included may be such topics as the cell theory, evolution, anthropology, inheritance, conservation, alternation of generations, ontogeny, life, classical experiments, economics and philosophy. Three lecture-discussion hours.

Biology 506. Principles of Biology II. Three hours.

A continuation of Biology 505.

Biology 511. Biology for Elementary Teachers. Three hours.

Experiments and demonstrations essential to the teaching of biological concepts of science in grades K through 6. Six discussion-laboratory hours.

Biology 571. Research and Thesis Seminar. Two hours.

Prerequisite: Approval by chairman of biology department.

Research in biology followed by the preparation of a thesis under the guidance of a member of the biology faculty.

Biology 572. Research and Thesis Seminar. Two hours.

Continuation of Biology 571.

Biology 573. Research and Thesis Seminar. Two hours.

Continuation of Biology 572.

BUSINESS

The Business Department offers the following four-year programs:

Area in Business specializing in Accounting	56 hours
Area in Business specializing in General Business....	56 hours
Area in Business specializing in Teacher Education	48 hours
Major in General Business	36 hours
Major in Business Teacher Education	30 hours
Minor in Business Teacher Education	18-19 hours
Minor in Economics	18 hours

In addition the department offers a two-year Executive Secretarial Program, and a one-year secretarial program leading to a Certificate in Secretarial Science.

Many students expecting to enter law school find business programs excellent pre-legal education. A special advisor within the department is provided for pre-legal students.

A major or area in business (other than those leading to teaching certificates) must include: Economics 230 and 231; Business 125, 126, 209, 301, 308, 324, 344, 391, and 405.

Classification of Business Courses

For certification purposes business courses are classified as follows:

Accounting: 125, 126, 225, 226, 227, 228, 320, 321, 322, 323, 421, 425, 441.

Secretarial Practice: 115, 116, 151, 152, 202, 203, 253, 254, 301.

General Business: 101, 209, 239, 308, 310, 312, 324, 341, 343, 344, 361, 362, 391, 405, 406, 430, 431, 440.

Methods and Materials: 461a, 461b, 561, 562.

Economics courses may be counted as Social Science.

BUSINESS

Area in Business specializing in Teacher Education

First Year

First Semester	Hours	Second Semester	Hours
Business 125	3	Business 126	3
*Business 151 or 152	2	Business 152 or 253	2
English 101	3	English 102	3
Military Science 101 (Men)	3	Military Science 102 (Men)	3
or		or	
Elective (Women)	2	Elective (Women)	2
Physical Education 115	1	Physical Education 116	1
Science 111	3	Science 112	3
Social Science 100	3	Social Science 101	3
Orientation 100	1	Orientation 101	1
	<hr/> 18		<hr/> 18

Second Year

**Business 115 or 116	3	Business 116 or 202	3
Business 253 or elective	2	Economics 231	3
Economics 230	3	Education 202	2
English 211	3	English 212	3
History 246	3	History 247	3
Military Science 201 (Men)	3	Military Science 202 (Men)	3
or		or	
Elective (Women)	2	Elective (Women)	2
	<hr/> 16	Psychology 211	3
			<hr/> 19

Third Year

Art 200	3	Business 203	3
Business 202 or elective	3	Business 301	3
Business 324	3	Education 316	2
Education 315	2	Music 271	3
Health 201	3	Science 110	3
Science 109	3	Elective	3
	<hr/> 17		<hr/> 17

Fourth Year

Business 461a	2	Business 405	3
Business 461b	2	Business Elective	3
Education 364	4	Elective	9
Education 463	10		
	<hr/> 18		<hr/> 15

*Students who have had typewriting previously should take Business 152.

**Students who have had shorthand previously should take Business 116.

MAJORS IN BUSINESS (Teaching)**With emphasis in Accounting:**

The following courses are required: Economics 230; Business 125, 126, 151, 152, 405, 461b, nine hours in Accounting, and three hours elective.

With emphasis in Secretarial Practice:

The following courses are required: Economics 230; Business 125, 126, 115, 116, 151, 152, 202, 253, 254, 301, and 461a.

With emphasis in General Business:

The following courses are required: Economics 230 and 231; Business 125, 126, 151, 152, 324, 405, 461b, and six hours elective.

MINORS IN BUSINESS (Teaching)**With emphasis in Accounting:**

The following courses are required: Business 125, 126, 151, 152, 405, and six hours in Accounting.

With emphasis in Secretarial Practice:

The following courses are required: Business 115, 116, 125, 151, 152, 202, 253.

With emphasis in General Business:

The following courses are required: Economics 230 and 231; Business 125, 151, 152, 209, 405.

BUSINESS

Area in Business specializing in General Business

First Year

First Semester	Hours	Second Semester	Hours
Business 125	3	Business 126	3
English 101	3	English 102	3
Military Science 101 (Men)		Military Science 102 (Men)	
or		or	
Elective (Women)	2	Elective (Women)	2
Physical Education 115	1	Physical Education 116	1
Science 111	3	Science 112	3
Social Science 100	3	Social Science 101	3
Orientation 100	1	Orientation 101	1
	<hr/> 16		<hr/> 16

Second Year

Economics 230	3	Business 209	3
English 211	3	Economics 231	3
Health 201	3	English 212	3
History 246	3	History 247	3
Military Science 201 (Men)		Military Science 202 (Men)	
or		or	
Elective (Women)	2	Elective (Women)	2
Science 109 or 110	3	Science or Mathematics Elective	3
	<hr/> 17		<hr/> 17

Third Year

Art 200	3	Business 308	3
Business 301	3	Business 344	3
Business 324	3	Music 271	3
Business 391	3	Psychology 211	3
Business 405	3	Elective	3
	<hr/> 15		<hr/> 15

Fourth Year

Electives	16	Electives	16
	<hr/> 16		<hr/> 16

BUSINESS

Area in Business specializing in Accounting

First Year

First Semester	Hours	Second Semester	Hours
Business 125	3	Business 126	3
English 101	3	English 102	3
Military Science 101 (Men)		Mathematics 107	3
or		Military Science 102 (Men)	
Elective (Women)	2	or	
Physical Education 115	1	Elective (Women)	2
Science 111	3	Physical Education 116	1
Social Science 100	3	Science 112	3
Orientation 100	1	Social Science 101	3
		Orientation 101	1
	16		19

Second Year

Business 225	3	Business 226	3
Business 227	3	Economics 231	3
Economics 230	3	English 212	3
English 211	3	Health 201	3
History 246	3	History 247	3
Military Science 201 (Men)		Military Science 202 (Men)	
or		or	
Elective (Women)	2	Elective (Women)	2
	17		17

Third Year

Art 200	3	Business 301	3
Business 209	3	Business 321	3
Business 320	3	Business 322	3
Business 324	3	Business 405	3
Science 109 or 110	3	Music 271	3
	15		15

Fourth Year

Business 308	3	Business 344	3
Business 421	3	Business 391	3
Business 441	3	Elective	9
Psychology 211	3		
Elective	3		
	15		15

EXECUTIVE SECRETARIAL PROGRAM

(A two-year program for women students)

First Year

First Semester	Hours
Business 101, Introduction to Business	3
Business 115, Beginning Shorthand	3
Business 151, Beginning Typewriting	2
English 101, Spoken and Written Communication I ..	3
Orientation 100, College Orientation	1
Physical Education 115, Fundamental Phys. Educ. Activities ..	1
Social Science 100, Contemporary Social Problems	3
	16

Second Semester

Business 116, Intermediate Shorthand	3
Business 152, Intermediate Typewriting	2
Business 254, Office Appliances and Procedures	3
English 102, Spoken and Written Communication II ..	3
Orientation 101, College Orientation	1
Physical Education 116, Fundamental Phys. Educ. Activities ..	1
Social Science 101, Contemporary Social Problems	3
	16

Second Year

First Semester

Business 125, Principles of Accounting	3
Business 202, Dictation and Transcription	3
Business 253, Advanced Typewriting	2
Economics 230, Principles of Economics I	3
History 246, History of Western Civilization	3
Elective	3
	17

Second Semester

Business 126, Principles of Accounting	3
Business 203, Secretarial Practice	3
Business 301, Business English	3
Economics 231, Principles of Economics II	3
History 247, History of Western Civilization	3
	15

This program must be completed with a "C" average or better.

CERTIFICATE IN SECRETARIAL SCIENCE

(A one-year program for women students)

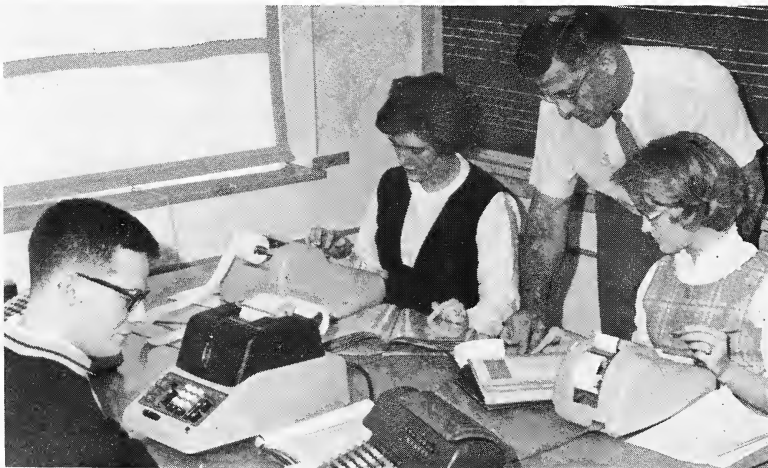
First Year

First Semester	Hours
Business 116, Intermediate Shorthand	3
Business 125, Principles of Accounting	3
Business 152, Intermediate Typewriting	2
Business 254, Office Appliances and Procedures	3
English 101, Spoken and Written Communication I	3
Orientation 100, College Orientation	1
Physical Education 115, Fundamental Phys. Educ. Activities	1
	16

Second Semester

Business 126, Principles of Accounting	3
Business 202, Dictation and Transcription	3
Business 203, Secretarial Practice	3
Business 253, Advanced Typewriting	2
English 102, Spoken and Written Communication II	3
Orientation 101, College Orientation	1
Physical Education 116, Fundamental Phys. Educ. Activities	1
	16

This program must be completed with a "C" average or better. It is assumed that students have had some typewriting and shorthand in high school so that they may start in the second semester of each. If students have not had previous typewriting or shorthand, summer study of five hours will be necessary. In such cases the students will substitute Business 151, Beginning Typewriting, two hours, or Business 115, Beginning Shorthand, three hours, in place of the shorthand or typewriting courses shown above for the first semester.



The Business Department offers a variety of new courses in its broadened curriculum.

BUSINESS

LOWER DIVISION COURSES

Business 101. Introduction to Business. **Three hours.**

Functional areas of business administration, forms of business organization, factors in the location of an enterprise, risk bearing, and control systems used in business. For the student who has no background in business.

***Business 115.** (Formerly Commerce 215.) Beginning Shorthand. **Three hours.**

Prerequisite: Business 151 or its equivalent.

Principles of Gregg shorthand; dictation and transcription.

Any student who has received at least one unit of high school credit in shorthand will not be permitted to take Business 115 for credit.

Business 116. (Formerly Commerce 216.) Intermediate Shorthand. **Three hours.**

Prerequisite: Business 115 and 152, or their equivalents.

A continuation of Business 115 with increased emphasis on dictation and speed building techniques.

Business 125. (Formerly Commerce 120.) Principles of Accounting. **Three hours.**

Form and construction of accounting statements, analysis of business transactions, recording in journals, posting to ledgers, adjusting entries, closing entries, reversing entries, working sheets, and special problems of single proprietorship and partnership.

Business 126. (Formerly Commerce 221.) Principles of Accounting. **Three hours.**

Prerequisite: Business 125.

Accounting concepts and principles; payrolls and payroll taxes; property and sales taxes; nature and characteristics of the corporation; corporation accounts and records; corporate earnings and surplus; corporation securities; accounting for manufacturing; departmental accounting; branch accounting; budgets; analysis and interpretation of financial statements; accounting for management.

***Business 151.** Beginning Typewriting. **Two hours.**

Speed building technique; knowledge and care of the machine; personal and business letters; use of carbon paper; tabulating; term papers and notebooks.

Any student who has received at least one unit of high school credit in typewriting will not be permitted to take Business 151 for credit.

Business 152. Intermediate Typewriting. **Two hours.**

Prerequisite: Business 151 or its equivalent.

Speed building; business papers; manuscripts; reports; mimeograph; tabulation.

Business 202. (Formerly Commerce 302.) Dictation and Transcription. **Three hours.**

Prerequisite: Business 116.

Shorthand vocabulary building; dictation; transcription of shorthand notes on the typewriter.

Business 203. (Formerly Commerce 403.) Secretarial Practice. **Three hours.**

Prerequisite: Business 116.

This course is designed to train professional secretaries and to develop skills for secretarial competency and efficiency. The student is given experience in a variety of specialized secretarial duties.

*These courses are planned for students who have had no previous study in typewriting and shorthand.

Business 209. (Formerly Commerce 309.) Business Organization. **Three hours.**

Prerequisites: Business 126 and Economics 230.

Classes of business organization, their evolution, and the tests of efficiency; individual entrepreneur organization; partnership; corporation; joint-stock company; business trusts; simple agreements and price combinations; pools; combination trusts; community-of-interest organization; holding company; amalgamations; mergers; promotion; underwriting; stock exchanges; reorganizations and receiverships; legislation.

Business 225. (Formerly Commerce 325.) Principles of Accounting—Intermediate. **Three hours.**

Prerequisite: Business 126.

Accounting statements; the recording process; the periodic summary; cash and temporary investments; receivables; inventories; current liabilities; investments in stocks, bonds, funds and miscellaneous items.

Business 226. (Formerly Commerce 326.) Principles of Accounting—Intermediate. **Three hours.**

Prerequisite: Business 225.

The acquisition, use, and retirement of plant and equipment; depreciation; depletion, and revaluations of plant and equipment; intangible assets and deferred charges; long-term liabilities; capital stock; surplus; statements from incomplete data; errors and their correction; statement analysis; statement of application of funds.

Business 227. (Formerly Commerce 327a.) Cost Accounting. **Three hours.**

Prerequisite: Business 126.

The field of cost accounting; cost flow, cost elements, cost classification and cost system; the cost accounting cycle; the voucher system and the factory ledger; elements of cost; applied manufacturing expense; actual manufacturing expense; departmentalized manufacturing expense; process cost accounting; the costing of by-products and joint products. A job order cost set of books is worked by the students.

Business 228. (Formerly Commerce 327b.) Specialized and Advanced Cost Accounting. **Three hours.**

Prerequisite: Business 227.

Estimated cost systems; budgetary control with standard costs; cost control through cost reports; analysis and control of distribution costs; gross profit analysis; break-even analysis; profit-volume analysis; direct costing.

Business 239. (Formerly Commerce 339.) Mathematics of Finance. **Three hours.**

Prerequisite: Mathematics 107.

Bank discount; true discount and present value; exact interest; logarithms; equation of accounts; domestic and foreign exchange; series annuities; bond valuation; business graphs; cumulative annuities; cumulative sinking funds; cumulative amortization plans; building and loan association calculations; industrial loans.

Business 253. Advanced Typewriting. **Two hours.**

Prerequisite: Business 152, or its equivalent.

Increased emphasis upon advanced typewriting problems. Production typewriting is stressed.

Business 254. (Formerly Commerce 453.) Office Appliances and Procedures. **Three hours.**

Principles and practices of use of various figuring and calculating machines.

UPPER DIVISION COURSES

(Open to Junior, Senior, and Graduate Students)

Business 301. Business English. **Three hours.**

Prerequisite: Junior standing.

The essential qualities of business writing; the sales letter; appeals to special classes; follow-up letters; inquiries, orders and responses; credit letters; collection letters; adjustment letters; letters of application; business reports; style studies.

Business 308. (Formerly Commerce 408.) Corporation Finance. **Three hours.**

Prerequisites: Economics 231 and Business 324.

The subject matter of this course covers the following matters pertaining to the private, profit-seeking corporate enterprise: (1) the acquisition of funds or property with which to operate; (2) sources of more permanent types of capital supply—namely, stocks and bonds; (3) sources of temporary capital needs and the essential practices of short-term credit institutions; (4) the management of the corporate net income; (5) alteration of the financial structure of the corporation on a voluntary or involuntary basis for the purpose of improving its financial standing.

Business 310. (Formerly Commerce 409.) Principles of Risk and Insurance. **Three hours.**

Prerequisite: Junior standing.

This course is designed to assist the student to acquire a sufficient understanding of the principles and coverages of insurance to enable him intelligently to plan a satisfactory program of insurance for his personal needs or his business responsibilities. The following subjects are considered: The nature of risk and methods of risk assumption; fire insurance; transportation insurance; casualty insurance; life insurance; and fidelity and surety bonds.

Business 312. Cases in Business Management. **Three hours.**

Prerequisite: Business 209.

Personnel management; business organization; policy and planning; wage payment; financial records and statements; purchases and sales; production control; and related problems.

Business 320. (Formerly Commerce 427.) Principles of Accounting—Advanced. **Three hours.**

Prerequisite: Business 226.

Partnerships—formation and operation; special partnership problems; joint ventures; installment sales; consignments; home office and branch relationships; corporate combination; consolidated balance sheet.

Business 321. (Formerly Commerce 428.) Principles of Accounting—Advanced. **Three hours.**

Prerequisite: Business 320.

Special problems with consolidated balance sheets; consolidated income and surplus statement; foreign branches and subsidiaries; statement of affairs; receiverships; statement of realization and liquidation; estates; trusts; governmental units; actuarial science.

Business 322. (Formerly Commerce 328.) Income Tax Accounting. **Three hours.**

Prerequisite: Business 126.

Income tax legislation—Federal and State; returns for individuals; gross income; basis and determination of gain or loss; capital gains and losses; dividends; deductions; withholding; partnerships; corporations. Students will have experience filling out income tax return forms.

Business 323. Advanced Tax Accounting. **Three hours.**

Prerequisite: Business 322.

Federal income tax report preparation with emphasis on corporate returns; estates and trusts; gift and estate taxes; special problems in preparation of federal tax returns.

Business 324. Money and Banking. Three hours.

Prerequisite: Economics 231.

Nature and functions of money; kinds of money; monetary systems; history of banking; functions of the bank; bank administration; the national banking system; deposits and depositors; the clearing house; domestic and foreign exchange; loans and discounts; bank supervision; savings banks; trust companies; foreign banking system; the federal reserve system; central banking policies and practices; monetary and fiscal policies both nationally and internationally.

Business 341. Salesmanship. Three hours.

Prerequisite: Junior standing.

The art of selling; the motive behind all buying; the customer's mental journey; attitudes of buyer and salesman; preparation of the selling talk; the pre-approach; the interview; arousing interest; creating desire; answering objections; meeting excuses; diplomacy of the close; types of customers.

Business 343. Advertising. Three hours.

Prerequisite: Junior standing.

The specific purpose of advertising; developing the copy; slogans; trademarks; layouts; engraving; scheduling of advertisements in newspapers and magazines; direct mail advertising; outdoor advertising; dealer display advertising; economic aspects of advertising; federal laws affecting advertising.

Business 344. (Formerly Commerce 443). Marketing. Three hours.

Prerequisites: Economics 231 and junior standing.

Consumers' buying; marketing functions and institutions; selling direct to consumer; earlier and simpler types of retail institutions; department stores; mail-order houses; chain stores; agricultural wholesale markets; middlemen of the city agricultural markets; classes and types of wholesaler; raw materials; cooperative marketing; speculation; prices and some price policies; brands and brand policies; ethical aspects of marketing.

Business 361. Unit Data Processing. Three hours.

Prerequisites: Junior standing and permission of the instructor.

Application of punched-card systems to business record keeping; forms of representing data; functions of the various equipment items; preparation of reports; design of systems.

Business 362. Electronic Data Processing. Three hours.

Prerequisite: Business 361.

Programming electronic computer; input-output media; systems analysis and design.

Business 391. (Formerly Commerce 491.) Statistical Methods. Three hours.

Prerequisite: Junior standing.

The course will consider such as the following: Frequency distributions; measures of location; measures of variation; probability; theoretical distributions; sampling distributions; problems of estimation; tests of hypotheses; problems of sampling; linear regression; correlation; index numbers; time series analysis.

Business 405. Business Law. Three hours.

Prerequisite: Junior standing.

Law in general; kinds of law; persons; torts; contracts; personal property; real property; forms of business organization.

Business 406. Business Law. Three hours.

Prerequisite: Business 405.

Ballments; sales of personal property; market practices; negotiable contract, suretyship and guaranty; privilege of debtors; labor relations.

Business 421. Governmental Accounting. Three hours.

Prerequisite: Business 126.

Accounting procedures used by federal, state and local government agencies; general and special funds; budget preparation and administration; report preparation; inter-fund adjustments; analysis of statements.

Business 425. Accounting Problems. Two hours.

Prerequisite: Business 226.

This is an advanced course in accounting and the contents will be determined by the needs of the students registering for it. Taught by announcement.

Business 430. Public Finance and Taxation I. Two hours.

Prerequisites: Economics 231 and Business 324.

Distribution of government burdens; the general property tax; modified property tax; shifting and incidence of taxation; the income tax; death and gift taxes; taxes upon business; consumption taxes; motor vehicle taxes; the poll tax; social security taxes; taxes on natural resources; non-tax revenue.

Business 431. Public Finance and Taxation II. Two hours.

A continuation of Business 430.

The power to tax; tax limitations; inter-governmental relations in taxation; public expenditures; state and federal aid; economy in expenditures; problems of public borrowing; fiscal administration.

Business 440. Investments. Three hours.

Prerequisite: Business 324.

Characteristics of bonds; characteristics of stocks; securities market; investment banking; sources of investment information; interpreting financial news; taxation of securities; investors of limited means; analysis of securities.

Business 441. Auditing. Three hours.

Prerequisite: Business 226.

Preliminary arrangements for an audit; general procedure of an audit; the original records; the asset accounts; the liability accounts; operating accounts; the audit report. An auditing problem is worked to illustrate the principles discussed in class.

Business 461a. Materials and Methods in Teaching Secretarial Subjects. Two hours.

Prerequisites: Business 116 or equivalent and Business 253.

Different methods, techniques and devices for teaching shorthand, typewriting, and office practice.

Business 461b. Materials and Methods in Teaching Bookkeeping and General Business. Two hours.

Prerequisites: Business 126 or equivalent and two courses in General Business.

Different methods, materials and techniques used in the teaching of bookkeeping and general business subjects are emphasized.

GRADUATE DIVISION COURSES

Business 561. Improvement of Instruction in Bookkeeping and General Business. Two hours.

Business 562. Improvement of Instruction in the Skill Subjects. Two hours.

ECONOMICS

(These courses are taught by members of the Business Department faculty)

LOWER DIVISION COURSES

Economics 230. Principles of Economics I. Three hours.

The foundations of economic analysis; what economics is about; an introductory look at American economy; private enterprise; profits and the price system; straight thinking in economics; national income, production, and employment; changing price levels; inflation and deflation; money and the banking system; the Federal Reserve System and the money supply; the modern theory of income, employment, and prices; the role of money; the foundations of economic growth, aggregate demand, savings, and investment; economic fluctuations; monetary policy; fiscal policy; the practical problems of stabilization policy.

Economics 231. Principles of Economics II. Three hours.

Prerequisite: Economics 230.

Business enterprise in the modern economy; the role of the consumer; demand, supply, and market prices, the business firm and its costs; competitive output and price in the short run; long-run competitive equilibrium; agriculture—a case study in competition; monopoly; monopolistic competition; oligopoly and the mixed economy; government and business; how income is distributed; wages and salaries; labor unionism and collective bargaining; government and labor; rent and interest; profits; wages, profits, and stable economic growth; the public economy in action; taxes, international trade and lending; international monetary and financial policy; commercial policy; international adjustments and the balance of payments.

UPPER DIVISION COURSES

(Open to Junior, Senior, and Graduate Students)

Economics 333. (Formerly Commerce 433.) Economics of Labor. Three hours.

Prerequisite: Economics 231.

The labor force; trade-union growth; structure and government of the local unit; structure and government of the national unit; structure and government of the federations; trade-union collective bargaining; management; dealing with organized labor; dealing with unorganized labor; government policy toward collective bargaining; government policy toward the individual worker; the operation of the labor market; wages; seasonal aspects of employment; cyclical aspects of employment; technological aspects of employment; a full employment economy; the distribution of income.

Economics 350. National Income. Three hours.

Prerequisite: Economics 231.

A treatment of basic concepts and composition of our national income account, involving a detailed analysis of the strong and weak points of our type of social accounting.

Economics 394. (Formerly Commerce 494.) International Economics. **Three hours.**

Prerequisites: Economics 231 and Business 324.

An introduction to the field of international trade, payments, and commercial policy. Topics included are: Theory of international trade, balance of international payments, foreign exchange, tariffs and other trade barriers, and current international economic problems and policies of the United States. The course concludes with a brief study of such international organizations and agreements as the International Monetary Fund, International Bank for Reconstruction and Development, other international financial institutions, and General Agreements on Tariffs and Trade.

Economics 410. American Economic History. **Three hours.**

Historical development of commerce, industry, transportation, banking, labor problems, business organization, monetary problems, and agriculture in the United States from the settlement of the nation to the Civil War.

Economics 411. American Economic History. **Three hours.**
Three hours.

Historical development of commerce, industry, transportation, banking, labor problems, business organization, monetary problems, and agriculture in the United States from the Civil War period to the present.

Economics 432. Alternative Economic Systems. **Three hours.**

Prerequisite: Economics 231.

A somewhat detailed treatment of such topics as the following: Capitalism; Utopian forerunners; the Marxian theory of socialism and communism; modern socialism and communism; British socialism; the economy of the Soviet Union; Fascism as existed in Italy and Germany; the Consumers' Cooperative Movement.

Economics 492. Business Cycles. **Three hours.**

Prerequisite: Economics 231.

This course will deal with such as the following: Economic decision-making; growth, instability, inflation, and change; long-run growth; short-run fluctuations; personal spending and saving decisions; saving and spending in the business sector; government expenditure and tax patterns; the total flow of spending; prices, output, and employment; the cyclical pattern; problems and procedures in forecasting; dynamic policies for business; dynamic policies for individuals.

Economics 493. Intermediate Economic Theory and Analysis. **Three hours.**

Prerequisite: Economics 231.

A development of the leading theories and analyses of value and distribution. Problems and policies of price determination of both the firm and the industry and factor pricing are considered at the intermediate level of analysis.

Economics 497. Private Enterprise and Public Policy. **Three hours.**

Prerequisites: Economics 231.

A detailed analysis of public policy as it is related to various types of business operations and combinations, including conspiracy, monopoly, mergers, unfair practices, and discrimination. Economic and legal appraisal of policy alternatives.

GRADUATE DIVISION COURSES

Economics 500. Problems in Consumer Economics. Three hours.

An advanced treatment of some of the problems in the area of consumer economics. The place of consumption in economic theory; the institutional background of consumer habits; sources of information on consumption; government regulation of consumer standards; intelligent consumer choices; savings as part of the family spending; investments, estate planning and wills; consumer credit; the consumer in taxes; etc.

Economics 501. Contemporary Economic Problems. Three hours.

Prerequisite: Economics 231.

This course involves a consideration of such goals of society as economic growth, economic stability, economic security, economic freedom, etc. The problem-approach method will be utilized. Students will be expected to demonstrate their understanding of and ability to use the tools of economic analysis in connection with the problems studied.

Economics 510. History of Economic Thought. Three hours.

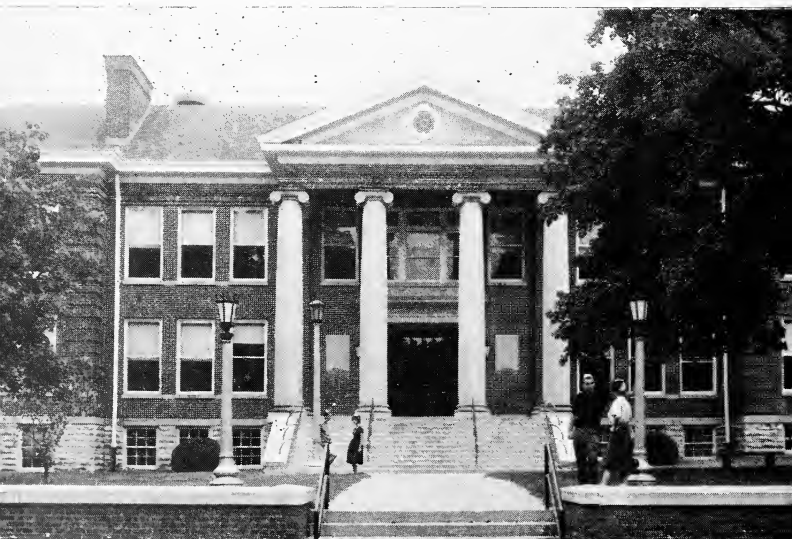
Prerequisite: Economics 231.

In this course a survey of economic thought and doctrine from the ancient period to the end of the classical period will be made.

Economics 511. Economic Thought Since the Austrian School. Three hours.

Prerequisite: Economics 510.

This is a continuation of Economics 510. The chief economical doctrine since the Austrian school will be studied.



Stately Roark Hall will be under reconstruction during the 1964-65 school year. It formerly housed the Departments of Mathematics, English, Geography, and Geology.

CHEMISTRY

(Recommended curriculum for a major in Chemistry with right of teaching certificate)

First Year

First Semester	Hours	Second Semester	Hours
Biology 131 or 141	3 or 4	Biology 132 or 142	3 or 4
Chemistry 111	4	Chemistry 112	5
English 101	3	English 102	3
Military Science 101 (Men)		Military Science 102 (Men)	
or		or	
*Elective (Women)	2	*Elective (Women)	2
Physical Education 115	1	Physical Education 116	1
Social Science 100	3	Social Science 101	3
Orientation 100	1	Orientation 101	1
	17 or 18		18 or 19

Second Year

Chemistry 211	5	Chemistry 212	5
English 211	3	Education 202	2
History 246	3	English 212	3
Mathematics 107	3	History 247	3
Military Science 201 (Men)		Mathematics 113	3
or		Military Science 202 (Men)	
*Elective (Women)	2	or	
	16	*Elective (Women)	2
			18

Third Year

Chemistry 310	5	Education 315	2
Health 201	3	Physics 132	5
Physics 131	5	*Elective	9
Psychology 211	3		
	16		16

Fourth Year

Chemistry 415	5	Education 364	6
Education 316	2	Education 463	10
Education 384	2		
*Elective	7		
	16		16

Recommended Curriculum for a Second Major

A student with a first major in some other department may take the following courses for a second major in Chemistry: Chemistry 111, 112, 211, 212, 310.

Recommended Curriculum for a Minor in Chemistry

A student with a major and a minor in other departments may take the following courses for a minor in Chemistry: Chemistry 111, 112, 211, 310.

*Electives to include six hours chosen from the following courses: Art 200, Art 390, Art 391, Foreign Language six hours, History 498, History 499, Music 271, Music 371, Music 372.

CHEMISTRY

(Recommended curriculum for a major in Chemistry without right of teaching certificate).

First Year

First Semester	Hours	Second Semester	Hours
Chemistry 111	4	Chemistry 112	5
English 101	3	English 102	3
Mathematics 107	3	Mathematics 113	3
Military Science 101 (Men)		Military Science 102 (Men)	
or		or	
Elective (Women)	2	Elective (Women)	2
Physical Education 115	1	Physical Education 116	1
Social Science 100	3	Social Science 101	3
Orientation 100	1	Orientation 101	1
	17		18

Second Year

Chemistry 211	5	Chemistry 212	5
English 211	3	English 212	3
History 246	3	Geology 301 or 305	3
Mathematics 108	2	History 247	3
Military Science 201 (Men)		Mathematics 232	3
or		Military Science 202 (Men)	
Elective (Women)	2	or	
Elective	3	Elective (Women)	2
	18		19

Third Year

Chemistry 310	5	Chemistry 312	5
Foreign Language	3	Foreign Language	3
Mathematics 251	5	Mathematics 352	3
Physics 131	5	Physics 132	5
	18		16

Fourth Year

Chemistry 415	5	Chemistry 416	5
Chemistry 420	4	Foreign Language	3
Foreign Language	3	Physics Elective	3
Physics 203	3	Elective	5
Elective	3		
	18		16

Students desiring to pursue a program working toward a professional chemist should check with the Chemistry Department regarding additional requirements.

CHEMISTRY

LOWER DIVISION COURSES

Chemistry 111. General Chemistry. Four hours.

The fundamental theories and laws of inorganic chemistry; the preparation, properties, and uses of the more common elements and their compounds; explanation of chemical symbolism. Three lecture and two laboratory hours.

Chemistry 112. General Chemistry. Five hours.

Continuation of the laws and theories of inorganic chemistry; study of organic chemistry, electro-chemistry, and the metals. Three lecture and four laboratory hours.

Chemistry 112b. Applied Organic Chemistry. Five hours.

Introduction to organic chemistry with emphasis on topics of importance to students majoring in Home Economics. A study is made of the common functional group reactions, carbohydrates, amino acids and proteins, fats and oils, vitamins, and synthetic fibers. Three lecture and four laboratory hours.

Chemistry 211. Qualitative Analysis. Five hours.

Prerequisites: Chemistry 111 and 112.

Reactions of cations and anions; solutions; equilibrium; oxidation and reduction; hydrogen-ion concentration and pH; complex ion formation. Two lecture and six laboratory hours.

Chemistry 212. Quantitative Analysis. Five hours.

Prerequisite: Chemistry 211.

The principles and use of the analytical balance; care and use of analytical equipment; preparation of solutions, quantitative and qualitative; solubility product and laws of precipitation and solution; principles of stoichiometry; quantitative determinations of common metals and nonmetals by gravimetric, volumetric and electrolytic methods. Two lecture and six laboratory hours.

UPPER DIVISION COURSES

(Open to Junior, Senior, and Graduate Students)

Chemistry 310. Organic Chemistry. Five hours.

Prerequisites: Chemistry 111 and 112.

Structural theory; hydrocarbons; carbonium ion theory; benzene and resonance; aromatic compounds; introductory stereo-chemistry; alcohols; alkyl halides; aryl halides; ethers and epoxides. Three lecture and six laboratory hours.

Chemistry 312. Advanced Organic Chemistry. Five hours.

Prerequisite: Chemistry 310.

Carboxylic acids and derivatives, including fats and oils; sulfonic acids; amines; diazonium salts; phenols; aldehydes and ketones; glycols and dicarboxylic acids; polyfunctional carbonyl compounds; carbohydrates; amino acids and proteins; polynuclear and heterocyclic compounds. Three lecture and six laboratory hours.

Chemistry 313. Biochemistry. Five hours.

Prerequisite: Chemistry 310.

Qualitative tests for digested substances in vivo and in vitro; chemical nature of muscle, blood and bone; enzyme action, urine analysis. Three lecture and four laboratory hours.

Chemistry 360. Fundamentals of General Chemistry. Four hours.

A consideration of the important topics from general chemistry. Includes: atoms and atomic theory, atomic structure, periodic classification, molecules, chemical bonding, gases, liquids and solids, ionization, acids and bases, equilibrium, energy and reaction rates, carbon chemistry, organic reactions, polymers, etc. Lecture three hours; laboratory and discussion two hours.

Chemistry 415. Physical Chemistry. Five hours.

Prerequisites: Chemistry 212 and Mathematics 232. However, a course in calculus is strongly recommended.

The nature of the gaseous, liquid and solid states; thermo-chemistry and thermodynamics; solutions; colloids. Three lecture and four laboratory hours.

Chemistry 416. Physical Chemistry. Five hours.

Prerequisite: Chemistry 415.

Continuation of Chemistry 415. Chemical equilibria; phase rule; chemical kinetics; electrochemistry; ionic equilibria; atomic and molecular structure. Three lecture and four laboratory hours.

Chemistry 420. (Formerly Chemistry 320.) Instrumental Methods. Four hours.

Prerequisite: Chemistry 212, 310, and permission of instructor.

The principles and uses of optical and electrical instruments in analysis. Colorimetric, spectrophotometric, conductometric, potentiometric, polarographic and chromatographic methods and determinations, methods of nuclear chemistry. Two lecture and four laboratory hours.

Chemistry 430. Research in Chemistry. Three to five hours.

Prerequisite: Junior or senior standing in chemistry and departmental approval.

Research in inorganic, organic, analytical, physical or biochemical problems. Three laboratory hours per week for each credit hour.

Chemistry 440. Advanced Inorganic Chemistry. Two hours.

Prerequisite: Senior standing in Chemistry.

Modern concepts of atomic nuclei, atomic structure, and classification of elements. Nature of the chemical bond. Complex ions and coordination compounds. Reactions and substances in aqueous and nonaqueous media. Radioactive and nuclear chemistry. Two lecture hours.

Chemistry 450. Recent Advances in Chemistry. Two hours.

Prerequisite: Senior standing in Chemistry.

Lecture and discussion of recent advances in chemistry including references to domestic and foreign (German) literature. Two lectures or conferences weekly.

EDUCATION

(Recommended Curriculum for a Major in Elementary Education with Right of Provisional Elementary Teaching Certificate)

First Year

First Semester	Hours	Second Semester	Hours
Art Elective	3	Art 260	3
English 101	3	English 102	3
Military Science 101 (Men)		Military Science 102 (Men)	
or		or	
Elective (Women)	2	Elective (Women)	2
Physical Education 115	1	Physical Education 116	1
Science 109 or 111	3	Science 110 or 112	3
Social Science 100	3	Social Science 101	3
Orientation 100	1	Orientation 101	1
	16		16

Second Year

Education 202	2	English 212	3
English 211	3	History 247	3
History 246	3	Mathematics 202	3
Mathematics 201	3	Military Science 202 (Men)	
Military Science 201 (Men)		or	
or		Elective (Women)	2
Elective (Women)	2	Psychology 211	3
Physical Education 220	2	Science Elective	3
Science Elective	3		
	18		17

Third Year

Education 315	2	Education 316	2
English 318	3	Education 354	2
Health 201	3	Home Economics 310	2
Music 271	3	Library Science 301	3
Science 351	3	Music 260	3
Elective	4	Elective	4
	18		16

Fourth Year

Education 360	2	Education 463	8
Education 367	6	Sociology 231	3
Geography Elective	3	Elective	4
*Social Science Elective	3		
Elective	4		
	18		15

*Selected from Upper Division Courses in Economics, Geography, History, Political Science, Sociology.

EDUCATION

(Major in Elementary Education Arranged According to Subjects)

ART	6
260 Public School Art	3
Elective: Art 200 or Art 361	3
EDUCATION	24
202 Professional Orientation	2
315-316 Human Development and Psychology	4
354 Reading in the Elementary School	2
360 Teaching of Elementary School Mathematics	2
367 Fundamentals of Elementary Education	6
463 Supervised Student Teaching	8
ENGLISH	15
101-102 Oral and Written Composition	6
211 Survey of Literature I	3
212 Survey of Literature II	3
318 Literature of the United States	3
HEALTH AND PHYSICAL EDUCATION	9
115 Physical Education	1
116 Physical Education	1
201 Personal and Community Health	3
220 Plays and Games in the Elementary School	2
Home Economics 310 Nutrition for Elementary Teachers	2
LIBRARY SCIENCE	3
301 Children's Literature	3
MATHEMATICS	6
201 Understanding Arithmetic	3
202 Understanding Elementary Mathematics	3
MILITARY SCIENCE (MEN) OR ELECTIVE (WOMEN)	8
101 Introduction to Military Science	2
102 Basic Military Training	2
201 Second Year Basic Military Training	2
202 Second Year Basic Military Training	2
8	
or	
Elective (Women)	8
MUSIC	6
260 Public School Music	3
Elective: Music 271, 371, or 372	3

PSYCHOLOGY	3
211 General Psychology	3
SCIENCE	15
109 Physical Science I or 111 Biological Science I	3
110 Physical Science II or 112 Biological Science II	3
Electives: Biology 219 or 433, Geology 301	6
Science 351 Science for Elementary Teachers.....	3
SOCIAL SCIENCES	21
100-101 Contemporary Social Problems	6
246-247 History of Western Civilization	6
Geography Elective	3
Sociology 231	3
Elective: Economics, Geography, History, Political Science, Sociology.....	3
ORIENTATION	2
100-101 Orientation	2
ELECTIVES	16
Total	134

EDUCATION

LOWER DIVISION COURSES

Education 202. Professional Orientation. Two hours.

An introduction to the field of education and teaching. The aim of the course will be not only to acquaint the student with the role of public education, but also to help him analyze his own personal fitness for teaching, to become acquainted with the nature of the teaching profession, and to help him choose intelligently a teaching field. At this time the student initiates the application to the Teacher Education Program. Certain tests and other prescribed instruments are completed which become a part of his professional folder.

UPPER DIVISION COURSES

(Open to Junior, Senior, and Graduate Students)

Education 301. (Formerly Education 30.) The Junior High School. Two hours.

Origin, development, and present status of the junior high school movement; the place of the junior high school in the public school system; the aims, purposes, and objectives of the junior high school; evaluation of types of programs; the junior high school plant; library, apparatus, and equipment of the junior high school.

Education 302. (Formerly Education 32.) Pupil Accounting. Three hours.

Relation of attendance to pupil progress; social and economic factors which affect attendance; school census; personnel records. In developing these topics a study will be made of personnel work in typical schools of Kentucky.

Education 303. Social Case Study. Three hours.

This course is designed for the training of attendance officers and covers a study of various approaches to understanding of the pupil with an educational setting as the basis of study. Some attention is given to social case work as it relates to the social and economic problems of the community.

Education 304. Vocational Home Economics Education. Four hours.

Prerequisite: Psychology 211.

The home economics teacher in the community; the needs of high school girls and the community; the high school teacher in the adult home making program; a study of the promotion and organization of classes. Observation and participation in adult classes.

Education 315. (Formerly Education 215.) Human Development and Psychology. Two hours.

Prerequisites: 60 semester hours including Psychology 211, Education 202, Social Science, and Biological or Physical Science.

This course is designed to utilize a synthesis of the concepts and principles of human growth and development in a scientific process of understanding the causes of human behavior. An attempt is made to understand the relative and complex influences on child behavior which result from the physiological, affectional, and cultural areas of forces. It includes two hours per week devoted to selected readings, films, lectures, and discussions; and one hour per week for each student to observe the behavior of a selected child and to write an anecdotal record of the observation.

Group interpretation of the anecdotal record provides experiences for inferring the causes of individual behavior from the large body of general principles which govern human behavior.

Education 316. (Formerly Education 216.) Human Development and Psychology. Two hours.

Prerequisite: Education 315.

This course is a continuation of Education 315. The experience of observing and keeping an anecdotal record of a child's behavior is continued with increased complexity of structure and interpretation. Seminars are directed more toward the psychological forces which interact with each other and with the physical and cultural forces to shape human behavior: self-developmental processes and self-adjustment processes. Attempts are made to relate classroom procedures to such topics as the nature of learning, forces affecting learning, motivation, perception, intelligence, child centered approach to learning, and evaluation of pupil progress.

Education 354. (Formerly Education 164, 22, and 254.) Reading in the Elementary School. Two hours.

Prerequisite: Education 315.

Objectives of reading in the elementary school; reading in the primary and intermediate grades; the place of oral reading in the grades; individual differences in reading; word difficulties; phonics; measuring reading instruction; motivation; materials of instruction.

Education 360. Teaching of Elementary School Mathematics. Two hours.

Prerequisites: Education 315, Mathematics 201, and Mathematics 202.

Developing an understanding of the elementary school mathematics program with emphasis on the foundation program of number experiences; methods and materials for teaching the fundamental processes of arithmetic, common and decimal fractions, weights and measures; and the evaluation of mathematical learning.

Education 364. (Formerly Education 36.) Fundamentals of Secondary School Methods. **Four or six hours.**

Prerequisite: One semester in residence at Eastern; standing of "C".

Graduated approach to responsible room teaching through experiences in study and discussion, organizing materials, directed observation, laboratory work, and gradual participation; development of the American secondary school; experiences in the study of pupil behavior; selection and organization of curriculum experiences; variation in techniques of teaching in different types of learning; learning objectives, interests, methods, and materials in special fields; experiences involving management and co-curricular duties; experiences in human relationship.

Education 367. (Formerly Education 26 and 267.) Fundamentals of Elementary Education. **Six hours.**

Prerequisite: One semester in residence at Eastern; standing of "C", Education 315, 316, 354, 360.

Graduated approach to responsible teaching in the elementary school through experiences in study and discussion, directed observation, organizing materials, laboratory work, and gradual participation; experiences in the study of child behavior; the course of study; selection and organization of curriculum experiences; teaching the various school subjects; various types of teaching and learning techniques and devices; experiences in playground and noon-hour supervision; participation in community activities; techniques of guidance, counseling, testing, and evaluating pupil progress.

Education 368. (Formerly Mathematics 31.) Elementary Statistical Methods. **Two hours.**

Methods of collecting data; methods of tabulation of data; uses and purposes of statistical methods; central tendencies; deviations; correlations; graphic methods.

Education 369. Audio-Visual Methods. **Three hours.**

A survey of various types of audio-visual aids; with instruction in the utilization of pictures, maps, graphs, slides, records, recorders, projectors, and other audio-visual materials.

Education 370. (Formerly Education 37.) Resource-Use Education. **Three hours.**

This course is designed to help teachers understand the dynamic role of education in developing resources—natural, human, and cultural—and to aid them in making better use of resources in teaching. Topics: Meaning and objectives of resource-use education; analysis of state, regional, and national resources; selecting and organizing resource materials for effective teaching purposes; use of field trips, visual aids, readings, and other activities; sources of materials from state, regional, and national agencies; types of aids available to teachers; state, regional, and national planning for the conservation and wise use of resources; some principles of resource-use education.

Education 384. (Formerly Education 47 and 383.) Organization and Administration of the School System. **Two hours.**

Prerequisite: Junior standing.

This course deals with the total school system and is designed to give the student a clear picture of the public school system as a whole. Among the topics treated are the study of and participation in experiences leading to an understanding of the principles and practices in the organization and administration of the total school system; study of the functions of education in a democracy; the scope and functions of school organization and control; problems of prospective teachers; important responsibilities and activities related to instruction; membership in the teaching profession, and other problems connected with the public school system in general.

Education 416. Child Development Laboratory I. Three hours.

This course involves the direct study of children. Each participant selects a child for study, writes a description of the child, and gathers significant data about the child from all available sources of information. In regular periodic meetings with other participants, the materials are presented for criticism and analysis. Emphasis is placed upon skill in observation, objectivity in recording, and realism in analysis of causes of behavior. The course, for in-service teachers, runs for the entire school year, and each participant must complete his analysis in a structured summary.

Education 417. Child Development Laboratory II. Three hours.

This course is a continuation of Education 416, but with added emphasis on procedures for analysis of the dynamics of behavior. A structured framework of six broad areas of factors and processes in child development is employed. The records must be summarized in terms of developmental tasks within these areas.

Education 418. Child Development Laboratory III. Three hours.

This course is a continuation of Education 417.

Education 419. Teaching in the Kindergarten. Three hours.

This course is designed primarily for students who are especially interested in the theory and practice of teaching in the kindergarten.

Topics: The kindergarten movement; nature, development, and education of the child of kindergarten age; organization, equipment, curriculum, and procedures used with children of this age; kindergarten education, its leaders; and its literature. Some opportunity will be provided for observing and participating in the kindergarten.

Education 421. (Formerly Education 421a and 421b.) Educational Measurement. Three hours.

Survey of the development of mental and educational tests; the nature and classification of standard tests; the construction of tests; the importance of accuracy in measurement, reliability, validity; extent to which standardized measures should replace traditional types of measurement; methods of improving the ordinary examination; the criteria for the selection of standardized tests; statistical analysis of the test data, use of the results for comparison, classification, promotion, guidance, prognosis, diagnosis; and measuring the efficiency of the teacher and of schools.

Education 441. (Formerly Education 43.) The Elementary School Curriculum. Three hours.

Objectives of education in light of society; function of the school; function of the curriculum; the curriculum as related to the objectives of education and to society; criteria for evaluating curricula; need and procedure for curriculum construction and revision.

Education 463. (Formerly Education 46.) Supervised Student Teaching. Eight or ten hours.

Prerequisite: See Page 58.

Observation, participation, and responsible room teaching; child study with special case study problems and remedial work; development of skills and techniques desirable for good school procedure; the location, collection, and organization of materials for instruction; study of community occupations, resources, social and economic problems; experience in meeting parents, visiting homes, participation in social programs of school and community; experience in directing various kinds of activities including routine school duties, field trips, and extra-

curricular program; acquaintance with the school organization, school policies, system of records and the like; learning how to maintain desirable pupil-teacher relationship.

Education 463b. Laboratory Experiences in Elementary Education. Eight hours.

Prerequisite: One semester in residence at Eastern; standing of "C".

This course is designed to meet the needs of experienced teachers who have taught on a full-time basis for a period of three years on a legal certificate and who are qualified under the regulations of the State Board of Education to use this course as a substitute for any part of or all of Student Teaching.

Topics: A study of the aims and functions of elementary education; analysis of good teaching practices; experiences in locating, collecting and organizing the materials in education; experiences in studying various kinds of activities including routine school duties, field trips, and extra-curricular programs; acquaintance with school organization, school policies, and records and reports; analysis of learning experiences involved in maintaining desirable pupil-teacher relationships; pupil-teacher planning and execution of plans; experiences in library readings, oral and written discussions, and limited observation and participation in an elementary classroom.

Education 463s. Laboratory Experiences in Secondary Education. Eight hours.

Prerequisite: One semester in residence at Eastern; standing of "C".

This course is designed to meet the needs of experienced teachers who have taught on a full-time basis for a period of three years on a legal certificate and who are qualified under the regulations of the State Board of Education to use this course as a substitute for any part or all of Student Teaching.

Topics: A study of the aims and functions of secondary education; analysis of good teaching practices; acquaintance with the latest studies and research dealing with: quality education; techniques of guidance and testing; grading, promoting and reporting; attendance, dropouts, and motivation; education for the gifted; meeting individual differences and ability grouping; integrating school subjects; self evaluation for teachers; school organization, daily program, and curriculum revision; place of extra-curricular activities in our schools; special problems of social studies in secondary schools; merit pay for teachers; professional ethics; and a growing educational philosophy; the American high school today and of the future; Kentucky's recently revised Foundation Program Law; review Retirement System; and new program of studies and accreditation policies.

Education 466. (Formerly Home Economics 46.) Advanced Methods in Home Economics. Three hours.

Prerequisite: Education 304 or taken concurrently.

The student has an opportunity to prepare teaching materials, visit high schools and lunchrooms, keep records, work with Future Homemakers of America, and plan assembly programs.

Education 490. Moral-Spiritual Values in Education. Three hours.

The purpose of this course is to provide opportunities for teachers to focus their attention on certain moral and spiritual values within the framework of the existing curriculums.

GRADUATE DIVISION COURSES

Education 500. Introduction to Educational Administration. **Three hours.**

This course is designed as the first course to be taken by those who plan to complete all or a part of the leadership curricula. It deals with theories of administration and the practice of these theories at the system level and community level; it deals with the functions of those who work with learners, with teachers, with plant, with curriculum, and with other aspects of a functioning educational program at the local, state, or national level. The studies of administrative functions of school personnel will be examined in this course. Research in the administrative field by CPEA will make up a large part of the materials for the course.

Education 501. (Formerly Education 50a.) School Administration I. **Two hours.**

Federal relations to education; the state as a fundamental school unit; general school law and court decisions relating to public education; powers and duties of state school officials; work of the state department of education; local units of school control; power and duties of local school officials; administration of adult education and other types of special education; the administration of teacher personnel; public-school relations; closer school-community relationships; principles of good school-community relationships; education and the community; non-government controls of education; school insurance administration; the non-public or protest school; community administrative structure; principles of operation.

Education 502. (Formerly Education 50b.) School Administration II. **Two hours.**

Administration of pupil accounting; the school census; attendance; records and reports; organization and administration of the supervisory program; curriculum administration; selection of school sites; building plans and designs; school building management; operation and maintenance of the school plant; selection and use of equipment and supplies; organization of school libraries; auxiliary agencies; administration of health education; school consolidation and transportation; office administration; classification and progress of pupils; administration of pupil guidance; appraisal; interpretation; advanced education; major steps in building a school.

Education 503. (Formerly Education 50c.) School Administration III. **Two hours.**

The background of school finance; the school finance situation; the control of public education; tests of wholesomeness of fiscal policy; economic effects of school finance; cost and character of education; a conceptual basis for local financial administration; budgeting school funds; auditing school accounts; school revenue-sources and management; financial accounting; cost analysis; financial statements and reports; salaries of school employees; school supply management; procedures; qualities of good teaching; procedures of evaluating and improving classroom teaching; methods of making the school a more effective agency; management of school property; financing capital outlay; the American state and central support of public education; the foundation program; designing programs for marshaling effective support for an adequate foundation program-equalization; designing programs for marshaling effective support for vigorous local autonomy; progress and compromise; designing fiscal programs to establish the desired balance of controls between central and local agencies; measures of educational need for use in state programs; measures of relative ability for use in evaluating fiscal policy and in designing state programs; state educational endowment; the state and taxation; federal financing of education.

Education 504a. Problems in Educational Administration. One hour.

This course is designed for advanced graduate students who desire to work on special problems according to their individual needs. Students enrolling for this course should have the approval of the Head of the Department of Education and the Dean of the College.

Education 504b. Problems in Educational Administration. One hour.
A continuation of Education 504a.

Education 504c. Problems in Educational Administration. One hour.
A continuation of Education 504b.

Education 505. Kentucky School Law. Two hours.

This course will be primarily concerned with developing knowledge and understanding of: The principles of school law, constitutional provisions relating to public schools in Kentucky, school districts, school buildings and other school property, school officers, the State Department of Education, school support, conduct of schools, compulsory attendance, school faculties and other employees, retirement, tenure, vocational education, rehabilitation education, higher education, and court interpretation of the laws.

Education 506. Problems in Public School Finance. Two hours.

Prerequisite: Education 503.

This course is designed primarily for in-service students. A few selected problems will be studied rather carefully.

Education 510. (Formerly Education 51a and 51c.) Curriculum Problems and the Improvement of Instruction in Elementary Schools. Three hours.

Meaning and function of education; underlying principles developed for curriculum use and curriculum revision; interpretation of the learning experiences (school subjects in light of the meaning and function of education); study of concrete materials and classroom procedure with a representative range of practical problems in various subject areas; types of organization used in modern instruction; how children learn; various educational agencies in the community; how the school may be made a real community center; laboratory study and field trips.

Education 511. General Supervision. Three hours.

Objectives and problems of school supervision; techniques and functions of supervision; current practices in supervision; problems of organizing instruction to meet increasing responsibilities of public schools; analyzing teachers' difficulties; planning supervisory programs; selecting and organizing instructional materials; locating and using community resources and other aids available to public school teachers; techniques for developing desirable professional relations; problems of in-service education for teachers. Each member of the group will plan a supervisory program for a local school system in Kentucky as a special project in the course.

Education 512. Curriculum Development. Two hours.

This course is designed for graduate students who desire to make a critical study of the principles and techniques of curriculum making in public schools. Recent curriculum developments are evaluated and effective curriculum programs are considered. Some attention is given to the recent professional literature on curriculum development and trends.

Education 513. Principles of Guidance. Two hours.

This course includes selection, evaluation, and usage of group guidance methods; emphasis will be placed upon appropriate methods and materials for specific situations in group guidance programs. This course will also deal with educational and occupational information. It will include a survey of pertinent educational and occupational material with emphasis being placed upon intensive and extensive use of these as they apply to secondary school students.

Education 515. (Formerly Education 52.) Human Development and the Psychology of Learning. **Three hours.**

Developmental factors and individual differences; motives, goals, and purposes; arranging the learning situation; problem solving and creative expressions; acquiring skill and information; transfer; the curriculum; social setting for learning; evaluation of development and learning.

Education 516. Measurement and Guidance. **Three hours.**

An intensive study of measurement and other techniques for guidance and counseling in schools, including counseling and guidance principles and techniques. Some attention is given to statistical methods. Recent developments in guidance and counseling are evaluated and effective programs are given special consideration. Fee, \$2.00.

Education 517. Individual Intelligence Testing. **Two hours.**

Designed to build proficiency in administering and understanding individual intelligence tests. Includes study of purposes of individual intelligence tests, their make-up, and directions for administering. Each student is required to administer test to several children or adolescents and to interpret test findings.

Education 518. Practicum in Counseling. **Two hours.**

This course is designed to build proficiency in counseling and interviewing. Includes brief review of modern counseling and interviewing techniques and their purpose in guidance; major emphasis is given to compilation and study of case histories of records, and actual interviewing and counseling with pupils, teachers, parents, supervisors, and administrators.

Education 519. Clinical Study of Exceptional Children. **Two hours.**

Methods are studied for diagnosing and teaching brilliant, retarded, physically handicapped, and emotionally maladjusted children.

Education 521. (Formerly Education 53.) Audio-visual Education. **Three hours.**

Meaning and value of audio-visual aids; fundamental principles developed for the selection, organization, and utilization of audio-visual materials; detailed study of various sources of visual aids; formation of standards for evaluation; laboratory study and field trips. Special attention is given to problems of organizing these materials in a school.

Education 531. (Formerly Education 55a.) History of Education. **Two hours.**

Brief survey of the history of education in ancient and medieval times with special reference to the contribution of Greece, Rome, and Christianity to modern education; educational influences of the Renaissance and the Protestant Reformation; the role of the doctrine of formal discipline; educational influence of Comenius, Rousseau, Pestalozzi, Froebel, and Herbart.

Education 532. (Formerly Education 55b.) History of Education in the United States. **Two hours.**

Rise and development of public education in the United States with special emphasis upon the work of Horace Mann; sociological, psychological, and scientific movements in education; desirable educational reorganizations; the influence of John Dewey; brief study of the development of public education in Kentucky.

Education 536. (Formerly Education 55c.) Philosophy of Education. **Two hours.**

Meaning and scope of philosophy and education; contrasting philosophies and conceptions of education; the nature and meaning of education in relation to the individual and the social order; education and democracy; social progress and social control; the nature of thinking; educational aims and values; subject matter and methodology in relation to the educative process; character education; evaluation and interpretation of present-day issues and problems in education.

Education 537. (Formerly Education 55d.) Comparative Education. **Two hours.**

Examination, comparison, and discussion of the background of conditions and theories which have resulted in the present practices in education in the world today with special emphasis upon the school systems and practices in Germany, France, England, Russia, Denmark, Sweden, China, Australia, Canada, Mexico, and representative South American countries. Comparisons will be made between education in America and in foreign countries.

Education 538. Modern Trends in Educational Philosophy. **Two hours.**

Not open to students who have not had Education 536 or its equivalent.

A study of alternative philosophies and their implications for current educational theory and practice.

Education 542. (Formerly Education 56.) Applied Statistical Methods. **Two hours.**

Prerequisite: Education 368.

Measurements in psychology and education; frequency distributions; measures of central tendency; measures of variability; applications of the normal distribution curve; reliability and significance of statistics; testing hypothesis; prediction and errors of prediction; correlation methods; reliability and validity of tests.

Education 550. (Formerly Education 57 and 57r.) Educational Sociology. **Three hours.**

Relation of sociology to education; sociological problems and their educational implications; social groups and institutions in relation to education; social forces and their significance in society; the sociological determination of educational objectives; social elements and values in the curriculum; democracy in school administration and supervision; essential elements of a socialized educational program.

Education 562. The Role of the Principal. **Three hours.**

Nature of demands made on school principals; organization of duties for effective management; planning the year's work; responsibilities for schedule-making; guidance functions of the principal; projecting a guidance organization; office duties of the principal; duties pertaining to records and reports; organizing the program of student activities; administering the program of student activities; duties pertaining to the need of youth; adjusting school to pupil needs; evaluating the progress of pupils; the administration of teacher personnel; duties pertaining to supervision; educational diagnosis and remedial treatment; the improvement of curriculum materials; the use of tests in instruction; the school library; business duties of principals; administering the school plant; the principal in the community; and the future of the school principalship.

Education 563. (Formerly Education 58b and 58c.) Improvement of Instruction in the Secondary School. **Three hours.**

Aims of the public secondary schools; plans for evaluating curriculum procedures; qualities of good teaching; procedures of evaluating and improving classroom teaching; methods of making the school a more effective agency.

Education 565. Investigations in Reading. **Two hours.**

This course is designed for graduate students who desire to make a critical study of the investigative and theoretical literatures dealing with the teaching of reading in the elementary school.

Education 566. Investigations in Elementary School Mathematics. **Two hours.**

This course is designed for graduate students who desire to make a critical study of the investigative and theoretical literatures dealing with the teaching of mathematics in the elementary school.

Education 567. Investigations in the Teaching of Social Studies. **Two hours.**

This course is designed for graduate students who desire to make a critical study of the investigative and theoretical literatures dealing with the teaching of social studies.

Education 569. (Formerly Education 59d.) **Research in Education. Two hours.**
Functions of educational research; types of research and the principal techniques of each type; bibliography; discovering educational problems for study; organization and interpretation of data; preparing and evaluating research reports; class discussions and reading reports.

Required of all graduate students who do not prepare a thesis.

Education 570. Seminar. One hour.

Education 571. Seminar. One hour.

Education 572. Seminar. One hour.

The Seminar is designed for students who are preparing a thesis in partial fulfillment of the requirements for the degree of Master of Arts in Education. If the thesis requirement is waived, Education 569, Research in Education, is required.

Education 580. Organization and Supervision of Student Teaching. Three hours.

Prerequisite: Teaching experience.

A course designed for teachers preparing to become supervising teachers in the elementary and secondary schools. Emphasis will be placed upon supervision of student teachers, supervision of instruction, and improvement of instruction. The course gives emphasis to the responsibility of the supervising teacher to administrators, to student teachers, and to the boys and girls. Intensive study will be made in the areas of teaching, classroom management, planning instruction, conferences, ethics, and evaluation of the student teaching program.

Education 581. Leadership for Helping Teachers in Studying Children. Two hours.

Prerequisite: For those persons who plan to serve as leaders in an in-service education program designed to increase teachers' understanding of pupils. The course is open to people who have the master's degree.

By using mimeographed records, the participants gain skill in relating factors and processes revealed in the records to the behavior of a child. Attention is given to methods of observation, writing an anecdotal record, selection of significant data, home visitation, and interpretation. Special emphasis is placed on plans for leading teachers in a systematic study designed to understand the behavior of pupils.

Education 582. Inter-Institutional Seminar in Child Development. Three hours.

For graduate students who are interested in current research in child development. The daily all-day program generally held for two weeks in the summer includes lectures, films, large and small group discussions, and committee assignments. Emphasis is placed upon the study of current research findings in child development. Participants are encouraged to do research and writing which can be published in the Seminar's annual publication. Outstanding guest speakers, a well stocked library, recreational facilities, and staff members from several leading institutions are provided. Registration by permission from the Head of the Department of Education and psychology.

ENGLISH

(English Language and Literature, Drama, Speech)

FIRST MAJOR IN ENGLISH (with right of teaching certificate):**First Year**

First Semester	Hours	Second Semester	Hours
English 101	3	English 102	3
Foreign Language	3	Foreign Language	3
Military Science 101 (Men)		Military Science 102 (Men)	
or		or	
Elective (Women)	2	Elective (Women)	2
Physical Education 115	1	Physical Education 116	1
*Science 111	3	*Science 112	3
Social Science 100	3	Social Science 101	3
Orientation 100	1	**Speech 131 or 231	3
		Orientation 101	1
	<hr/>		<hr/>
	16		19

Second Year

English 211	3	Education 202	2
English 265	3	English 212	3
Foreign Language	3	Foreign Language	3
History 246	3	History 247	3
Military Science 201 (Men)		Military Science 202 (Men)	
or		or	
Elective (Women)	2	Elective (Women)	2
Science 109	3	Psychology 211	3
	<hr/>	Science 110	3
	17		19

Third Year

Education 315	2	Art 200	3
Education 384	2	Education 316	2
English 301	2	English 302	2
English Elective	3	English Elective	4
Health 201	3	Elective	6
Elective	5		
	<hr/>		<hr/>
	17		17

Fourth Year

Education 364	4	English 441	3
Education 463	10	History 340, 341, or 342	3
English 463	2	Music 271	3
	<hr/>	Elective	7
	16		16

The student who wishes to major in English without right of certification to teach may follow the curriculum for the first major given above, but substitute other courses for those in education.

*Three hours of mathematics or three hours in other natural science may be taken instead of one of the science courses listed in the English curriculum.

**If Speech 231 is elected, it must be postponed until the second year or later. Speech 131 should be taken in the first year.

For the electives in English, students should take one course in group 4 and one course from each of the other groups to make a minimum total of 32 hours including English 101 and 102.

1. English 201, 216, one course in Drama, one course in Speech
2. English 311, 312, 319, 321, 325
3. English 314, 317, 318, 322
4. English 421, 423, 424, 425

AREA IN ENGLISH:

A student may take an area in English by earning a total of at least 54 semester hours including English 101 and 102. In general, the student may follow the curriculum for a first major in English, adding at least 22 additional hours and selecting them in such a way that the 48 hours exclusive of freshman English will be distributed as follows: 30 semester hours in Grammar, Composition, and Literature; and 18 semester hours distributed among Speech, Drama, and Journalism. Any extra hours should be taken in the field of Literature.

SECOND MAJOR IN ENGLISH:

A student with a first major in some other department may take the following courses for a second major in English: English 101, 102, 211, 212, 265, 301, 302, 441, Speech 131 or Speech 231, and one course each from any three of the following groups to make a minimum of 30 hours including English 101 and 102:

- | | |
|---|---|
| 1. English 201, 319, 325, Speech 205,
Drama 262 or 363 | 3. English 318, 321, 322
4. English 421, 423, 424, 425 |
| 2. English 311, 312, 314, 317 | |

Students with a second major in English are urged to meet the requirements in foreign language for the first major if it is possible to do so.

MINORS IN ENGLISH, DRAMA, SPEECH:

I. English—English 101, 102, 211, 212, 265, 301, Speech 131 or 231, and four additional hours in literature.

II. Drama—Drama 222, 242, 262, 363, Speech 131, and elect six hours of Drama.

III. Speech—Speech 131, 230, 231, 341, and elect six hours of Speech and three hours of Drama.

ENGLISH**LOWER DIVISION COURSES**

English 101. (Formerly English 10a, 10b.) Spoken and Written Communication I. Three hours.

Study or review of the mechanics of expression, such as grammar, punctuation, spelling, and sentence structure; word study and good usage; including the use of the dictionary; practice in letter writing and in organizing and presenting both in writing and speaking (especially in brief compositions and expository speeches) material from the student's experience and observation and from his reading and study; some practice in more effective reading and listening.

English 102. (Formerly English 10b, 10c.) Spoken and Written Communication II. **Three hours.**

Prerequisite: English 101.

Continued practice in organizing and presenting material as written and spoken composition. Longer compositions; at least one longish investigative paper which employs the elementary principles of research; paragraph structure and development; emphasis on reading and analysis; acceptable usage in speaking and writing.

English 200. Journalism and Society. **Two hours.**

An introduction to mass communications; a study of newspapers, magazines, radio, television, and business and industrial publications; the history of mass communications; social, political, and economic roles in modern society; the industries and professions related to mass communications; reading in current periodicals and journalistic literature. (May be taken by freshmen by special permission of the instructor.)

English 201. Journalism, Newswriting. **Two hours.**

Prerequisites: English 101 and 102.

Practice in news gathering and writing; background study of the nature of news; procedure in reporting; communication through newspapers and other media; student writing for publication in the campus newspaper and in local newspapers. (Students are encouraged, but not required, to join the Progress staff.)

English 202. Journalism, Feature Writing. **Two hours.**

Prerequisites: English 101 and 102. (Desirable for students to take English 201 before English 202)

Practice in writing feature stories for newspapers and magazines; background study of professionally-written features; writing procedure; free-lance markets; writing designed for publication in newspapers and magazines.

English 211. (Formerly English 218, 21a.) Survey of Literature I. **Three hours.**

Prerequisite: English 101 and 102.

Selections from the great masterpieces of Greek and Latin poetry, drama, history, and philosophy; selections from Oriental, Hebrew, and Mohammedan literature; selections from medieval myth, saga, and romance; selections from the literature of the Renaissance.

English 212. (Formerly English 219, 21c.) Survey of Literature II. **Three hours.**

Prerequisite: English 101 and 102.

Selections from continental, English, and American literature; types of literature, such as poetry, drama, short story, essays; the study of the writings of outstanding authors of the various periods of literature; literary background and criticism.

English 216. (Formerly English 22.) The Short Story. **Two hours.**

Prerequisite: English 101 and 102 and one course in literature.

Technique of the short story; development of the short story as a literary type; romanticism and realism in stories; the short story in America; short stories for the high school; the writing of a story or a paper.

English 265. (Formerly English 26.) Grammar for Teachers. **Three hours.**

Prerequisite: English 101 and 102.

Parts of speech, syntax, and sentence analysis; history of teaching of grammar; methods of testing and measuring progress; relationships to all verbal communication.

UPPER DIVISION COURSES

(Open to Junior, Senior, and Graduate Students)

English 301. (Formerly English 30a.) Advanced Composition I. **Two hours.**

Required of juniors and seniors who have less than six hours of freshman English.

Required written reports, precis, recommendations; informational essays or feature articles, news stories, editorials; book reviews; critical essays; research articles. Students are encouraged to write with a view to submitting their articles to suitable periodicals for publication.

English 302. (Formerly English 30b.) Advanced Composition II. **Two hours.**

Prerequisite: English 301.

Practice in writing short stories, one-act dramas, radio and motion picture dramas, feature articles, critical essays, familiar essays. Students are encouraged to write with a view to submitting the writing to suitable agencies for publication.

English 303. Journalism Practice I. **One hour.** (May be repeated three times)

Prerequisites: English 101 and 102.

Supervised laboratory work in the medium of newspaper communication; designed to give the student practical experience on the staff of a weekly newspaper; study of techniques; analysis of problems; at least two meetings each week for evaluation of work.

English 304. Journalism Practice II. **One hour.** (May be repeated three times)

A continuation of English 303.

English 307. Journalism, Editorial Writing. **Two hours.**

Prerequisite: English 201, English 202 or English 301.

Instruction and practice in writing editorials, letters to the editor, columns, and interpretative articles on subjects of the student's choice; reading and analysis of editorial writing and practices; student writing designed for publication in the campus newspaper and other newspapers and periodicals; much writing of various types.

English 311. (Formerly English 32a and 32b.) Shakespeare. **Three hours.**

Prerequisite: English 101 and 102, and two courses in literature.

Elizabethan England as a background for the Shakespearian drama; early Elizabethan drama; Elizabethan theories of comedy and tragedy; development of Shakespeare's dramatic genius; problems of authorship, chronology and texts; the great comedies, histories, and tragedies; rapid reading of many plays and more careful study of a few of the great plays.

English 312. (Formerly English 33.) Modern Drama. **Three hours.**

Prerequisite: English 101 and 102, and two courses in literature.

Ibsen and his influence; the free theater and the new drama on the continent; naturalism and expressionism; the independent theater and the dramatic revival in England; the Abbey Theater and the Irish Renaissance; American imitators of the European drama; the little theater movement; Eugene O'Neill and the repertory theater; experimental drama.

English 314. (Formerly English 34a and 34b.) The Novel. **Three hours.**

Prerequisite: English 101 and 102, and two courses in literature.

History, development, and survey of the English novel and the American novel from their beginnings to 1920; content and literary characteristics of the different types of novels; foreign influences; extensive reading and discussion of the different types of novels.

English 317. (Formerly called Contemporary Literature.) Modern Novel. **Three hours.**

Prerequisite: English 101, 102, and six hours of literature.

British and American novels of the twentieth century since 1920; new authors, new influences, new trends; form, quality, content of the twentieth century novel; history and development of the novel of the twentieth century; critical study of selected novels; some consideration of novels of other nations; extensive reading of novels.

English 318. (Formerly English 36.) Literature of the United States. **Three hours.**

Prerequisite: English 101 and 102, and two courses in literature.

Persistence of pioneer attitude in American literature; the case for religious, political, personal, and economic freedom; from rugged individualism toward social concern; "woods longing" and the open road; quest for the ideal; inter-racial accommodation and conflict; progress toward realism; men and nature; men and machines; men and earth; literary evaluation; teaching techniques; writers as human beings; topics inherent in selected individual writings from colonial times to the present.

English 319. (Formerly English 461 and 40.) Kentucky Literature. **Three hours.**

Prerequisite: English 101 and 102, and two courses in literature.

The economic, political, social, and religious background of the early Kentuckians as expressed in their writings; ante-bellum literature; the influence of the War Between the States; the rise of local color fiction; the revival of poetry; present-day writers and tendencies; ballads; seventeenth century survivals in the native idiom; opportunity for students to become familiar with the John Wilson Townsend Collection.

English 321. (Formerly English 37a.) Poetry and Prose of the Romantic Period. **Three hours.**

Prerequisite: English 101 and 102, and two courses in literature.

In poetry the rise, development, and culmination of Romanticism; the impact of German metaphysics; the development of poetic form in Wordsworth and Coleridge; the return to the past in Scott and Southey; revolt and satire in Byron; Shelley and democratic idealism; Keats and esthetics. In prose the development of the essay as a medium of self-expression, literary criticism, and social ideals, as exemplified in the writings of Lamb, Coleridge, Hazlitt, De Quincey, and Landor.

English 322. (Formerly English 37b.) Poetry and Prose of the Victorian Period. **Three hours.**

Prerequisite: English 101 and 102, and two courses in literature.

Social ideals, political principles, religious conceptions, scientific theories, and cultural changes as mirrored in the non-fictional prose of such Victorian writers as Macaulay, Carlyle, Newman, Mill, Spencer, Arnold, Huxley, Ruskin, Stevenson, and Pater. The poetic cycle from Tennyson to Housman, reflecting the religious faith and doubt, social reform and unrest, estheticism, and skepticism of the period.

English 323. Modern Poetry. **Three hours.**

Prerequisite: English 101, 102, and six hours of literature.

Major British and American poets of the twentieth century; form and content of modern poetry; analysis, interpretation, and criticism of modern poetry; special studies; writing of poetry by the students.

English 325. Literature of the Old Testament. Three hours.

Prerequisite: English 101 and 102, and two courses in literature.

Reading of the entire Testament: (1) the books of history and law, from Genesis through Nehemiah; (2) the prophets, in chronological order, studying the insights of each in relation to his times; (3) the remaining third part of the Canon—its wisdom literature, dramatic poetry, lyric poetry, and masterful short narrative. A study of truth and beauty in the most significant of national literatures.

English 360. This course has been discontinued. See Library Science 301.

English 402. Creative Writing. Three hours.

A seminar course in writing open to those students who have had English 302 or who have a desire to have their manuscripts criticized before being submitted for publication. Fiction, drama, poetry, biography, or the informal essay accepted.

English 403. Creative Writing Conference. One hour.

Prerequisite: English 101 and 102; permission of the director of the course.

A one-week course of fifteen informal lectures and discussions led by Eastern faculty members and visiting lecturers; special conferences and counseling; criticism of student writing; lectures on modern creative art and artists; readings of their own work by visiting authors; discussions of the problems of composition and publication. Each student must submit a short story, or a one-act play, or four poems.

English 421. (Formerly English 42.) Renaissance and Elizabethan Literature. Three hours.

Prerequisite: English 101 and 102, and two courses in literature.

Spirit of the Renaissance; influence of Italian and other continental literatures; early English humanists; Elizabethan enthusiasm; the Elizabethan language; new literary influences; chief literary forms; Spenser and Elizabethan poetry; the great sonneteers; Sidney and criticism; Bacon and scientific writing; the Shakespearian poetry; Ben Jonson, Drayton, and Daniel; prose fiction; Elizabethan drama.

English 423. (Formerly English 43.) Milton and the Puritan Period. Three hours.

Prerequisite: English 101 and 102, and two courses in literature.

The Puritan background; life of Milton as it affected his writings; his earlier poetry; development of his genius; the great epic *Paradise Lost* and its interpretation; *Paradise Regained* and *Samson Agonistes*; other writers of the period and their writings.

English 424. (Formerly English 44.) Chaucer and Medieval Story. Three hours.

Prerequisite: English 101 and 102, and two courses in literature.

Study of the various types of medieval story—the folk-epic, the beast tale, the metrical romance, the fabliau, the saint's legend, and the ballad—and of the social and moral ideals which they reveal.

English 425. (Formerly English 45.) The Age of Classicism. Three hours.

Prerequisite: English 101 and 102, and two courses in literature.

Social backgrounds of classicism; Restoration drama as a reaction against Puritanism; Dryden and the rise of the critical spirit; Pope and the Augustans; the literary dictatorship of Dr. Johnson; new tendencies in the pre-romantic writers.

English 441. (Formerly English 47.) History of the English Language. **Three hours.**

Prerequisite: Two years of work in English toward a major or minor in English.

The family of languages; the Old English period; the Middle English period; modern English; the foreign and native elements in English; history of English vowel sounds; mutation and gradation; the consonants; English inflections; English accent; collateral readings in the less technical works on the English language.

English 463. Teaching of High School English. **Two hours.**

Prerequisites: A major or a minor in English. A course for students who are to do student teaching in English.

Objectives of high school English; critical analysis and selection of textbooks, activities, and materials; review and application of educational principles and psychology of learning to the studying and teaching of high school English; different methods and techniques of teaching the various phases of high school English—speech, written composition, grammar, and literature; study of teaching by observing good teaching; interrelationship of English to other high school subjects and activities; study of various methods and plans of teaching; standards of achievement for high school English; evaluation; extracurricular activities for the English teacher.

GRADUATE DIVISION COURSES

English 501. Advanced Composition III. **Three hours.**

For graduate students who have not had English 301.

Much writing of many kinds and forms, principally expository or utilitarian in character rather than belles-lettres; study of the principles of such writing and of well-written examples of the types being written; as much attention as is required to matters of style and correctness, it being imperative that graduate students possess or attain a reasonable mastery of these.

English 511. The Development of English Drama to 1642. **Three hours.**

Medieval liturgical drama; early miracle plays and the guild cycles; morality plays and interludes; early Tudor Renaissance drama; the development of the theater; companies of actors; Marlowe, Lyly, Greene, Peale, and Nashe; Edward De Vere and the Shakespearian drama; Ben Johnson and the Stuart dramatists.

English 515. (Formerly English 52.) English Criticism. **Three hours.**

A study of the development of English criticism from its beginnings to the end of the nineteenth century. Foreign influences in English criticism; changing conceptions of the criteria of criticism; the great critics and their works.

English 565. (Formerly English 50 and 51) Problems in High School English. **Three hours.**

A course for graduate students who wish to work on individual problems under the direction of an instructor. Much reading and research are done. Various problems are analyzed and discussed. Many references are used. Special papers are prepared.

DRAMA

A student may complete a minor in Drama by taking the following courses: Drama 222, 242, 262, 363, Speech 131, and six semester hours of Drama electives.

Drama 222. Introduction to Theater. Three hours.

Course designed to study important trends, production methods, and personalities in theater from the Greek theater up to Ibsen.

Drama 242. Stagecraft and Scenic Design. Three hours.

Theory and practice in the technical aspects of design, construction, painting, make-up, and lighting of scenery, with some consideration of the history and development of the art of stagecraft. Open to all students. One lecture period and three laboratory periods per week.

Drama 243. Stagecraft and Scenic Design. Three hours.

Continuation of 242. One lecture period and three laboratory periods per week.

Drama 262. Fundamentals of Acting. Three hours.

Course designed for individual development of acting technique for stage presentation or teaching. Emphasis given to developing an acting style best suited to the individual.

Drama 264. Advanced Acting Techniques. Three hours.

Prerequisite: Drama 262.

Course designed to encourage professional ability in acting skills. Special emphasis given to schools of acting and different methods of preparation. Admittance to the class by approval of the instructor only.

Drama 363. (Formerly English 263.) Fundamentals of Directing. Three hours.

All aspects of play direction examined—staging, try-outs, rehearsals, theory, and terminology. Final examination involves direction of a one-act play.

Drama 463. Staging Problems. Three hours.

Prerequisites: Drama 262 and 363.

Course designed to encourage professional ability in directing. Each individual will be expected to develop a practical system of directing. Course will require several one-act plays to be directed and one three-act play for final examination.

Drama 465. Children's Theater Production. Two hours.

Prerequisites: Drama 242 and 363.

Dramatization of children's stories and presentation of plays for children. Student will work in training school. Principles of creative dramatics. Course developed through study, observation, and practice.

SPEECH

A student may complete a minor in Speech by taking Speech 131, 230, 231, 341, six semester hours of Speech electives, and three hours of Drama.

Speech 131. (Formerly English 163, 12.) Fundamentals of Speech. Three hours.

Prerequisite: English 101.

Corrective work for posture and movement; characteristics of a pleasing voice; individual diagnosis of voice qualities; tone placing; enunciation; pronunciation; pitch, rate, and volume; much practice in individual speaking and reading under careful, constructive criticism.

Speech 205. (Formerly English 31, 205, 305.) Discussion and Debate. **Three hours.**

Prerequisite: English 101 and 102.

Logic and semantics; process and persuasion in the formation of public opinion; application of discussion and debate as essential tools for reaching decisions in a democratic society.

Speech 206. Advanced Discussion and Debate. **Three hours.**

Prerequisite: Speech 205.

Complete preparation and practice in tournament debating and discussion. Development of proficiency in debate practice. Admittance by permission of the instructor.

Speech 230. Voice and Diction. **Three hours.**

Prerequisites: Speech 131, English 101, 102.

Advanced study of the standards for good voice and diction; development of proper breathing, vocal resonance, and projection of tone; the formation, description and classification of the sounds of spoken English; correct pronunciation; special speech problems; individual analysis of student's voice through phonetics and recordings.

Speech 231. (Formerly English 23, 231.) Public Speaking. **Three hours.**

Prerequisites: English 101, 102, and Speech 131.

Source and organization of speech materials; analysis of the audience; practice in preparation and delivery of speeches for various occasions, purposes and audiences; speech criticism; the use of charts, posters, and other visual aids.

Speech 331. (Formerly English 38a, 38b(and 331.) Introduction to Speech Correction. **Three hours.**

Prerequisites: English 101, 102, Speech 131 or Speech 231.

This course is designed to help the classroom teacher and the speech correctionist to work together on amelioration of speech difficulties. The normal development of speech; types of speech defects; behavior patterns of speech defectives; diagnostic and remedial procedures for functional disorders; corrective materials and techniques suited to the classroom.

Speech 341. (Formerly English 431.) Oral Interpretation. **Three hours.**

Prerequisite: Speech 230.

Sources of materials; techniques of interpretation; principles involved in critical analysis and appreciation of both the emotional and intellectual aspects of literature; criteria for selecting readings; individual work under careful direction.

Speech 451. Dramatic Reading. **Three hours.**

Prerequisites: Speech 131 and 230.

The nature of dramatic reading; selecting, cutting, and presenting of the various types of dramatic literature. Attention given to movement and staging of the readings. Final examination involves a platform recital.

Speech 461. Problems in Teaching Speech in Elementary and Secondary Schools. **Three hours.**

Prerequisite: Speech 131, 231, 341.

Philosophy of speech education; planning a course of study; effective teaching of speech through the curricular program and through extra-curricular activities such as discussion, debate, and contests in other speech areas. Attention is given to developing the student's ability to recognize and correct children's speech problems.

FOREIGN LANGUAGES

A student may take an area in Foreign Languages by earning a total of at least 48 semester hours in three different languages. The 48 hours shall be distributed as follows: 18 semester hours in the leading language, 12 semester hours each in two other languages, and 6 semester hours elective. The 6 hours of electives should be in one of the languages selected for the area of concentration.

FRENCH

A student may major in French by taking a minimum of 24 hours in French.

A student with a major and a minor in other departments may take a minimum of 18 semester hours for a minor in French.

LOWER DIVISION COURSES

French 101. (Formerly French 11.) Elementary French. **Three hours.**
Pronunciation; grammar; conversation in French on material studied.

French 102. (Formerly French 12.) Elementary French. **Three hours.**
Prerequisite: French 101 or one unit of high school French.
Continuation of grammar study begun in French 101 and oral work based on reading material.

French 201. (Formerly French 21.) Intermediate French. **Three hours.**
Prerequisite: French 101 and 102 or two units of high school French. Grammar review. Selected prose readings.

French 202. (Formerly French 22.) Intermediate French. **Three hours.**
Prerequisite: French 201 or three units of high school French.
Continuation of French 201.

UPPER DIVISION COURSES

(Open to Junior, Senior, and Graduate Students)

French 301. (Formerly French 31.) French Prose Classics. **Three hours.**
Prerequisite: Two years of college French or the equivalent.
Reading of prose masterpieces of the seventeenth and eighteenth centuries.

French 302. (Formerly French 32.) French Prose Classics. **Three hours.**
Prerequisite: French 301 or its equivalent.
Selected prose works of the nineteenth and twentieth centuries.

French 401. (Formerly French 41.) French Drama and Poetry. **Three hours.**
Prerequisite: Two years of college French or the equivalent.
Plays and poetry of the Classical period.

French 402. (Formerly French 42.) French Drama and Poetry. **Three hours.**
Prerequisite: French 401 or its equivalent.
Selected readings of drama and poetry from the seventeenth century to the present.

French 403. (Formerly French 350.) French Seminar. **Three hours.**
Prerequisite: Twelve hours of college French.

This course is designed to round out as much as possible the major work in French, giving a view of the subject as a whole, supplementing at points which have of necessity been neglected and discussing problems for study in the future as the student goes into the teaching field or the graduate school. Review of the great schools of prose, drama, and poetry; wide readings in contemporary literature; conversation in the salon manner on problems of interest to the language student.

French 404. Advanced French Grammar and Composition. **Three hours.**
Prerequisite: Twelve hours of college French.

The aim of this course is to review the techniques of French composition, and to encourage independent writing on the part of the student. Review of phonetics and grammar; compositions on assigned subjects in French literature.

GEOGRAPHY

(Recommended curriculum for a major in Geography with right of teaching certificate)

First Year

First Semester	Hours	Second Semester	Hours
English 101	3	English 102	3
Geography 101	3	Geography 102	3
Military Science 101 (Men)		Military Science 102 (Men)	
or		or	
Elective (Women)	2	Elective (Women)	2
Physical Education 115	1	Physical Education 116	1
Science 111	3	Psychology 211	3
Orientation 100	1	Science 112	3
Elective	4	Orientation 101	1
		Elective	2
	17		18

Second Year

Art 200	3	Education 202	2
English 211	3	English 212	3
Geography 221	3	Geography 202	3
History 246	3	Geography 271	3
Military Science 201 (Men)		History 247	3
or		Military Science 202 (Men)	
Elective (Women)	2	or	
Elective	3	Elective (Women)	2
		Elective	3
	17		19

Third Year

Education 315	2	Education 316	2
Geography 230	3	Education 384	2
Geology 301	3	Geography 373	3
Health 201	3	Geography 471	3
Elective	6	Music 271	3
		Elective	3
	17		16

Fourth Year

Geography Elective	3	Education 364	4
Elective	13	Education 463	10
		Social Science 466	2
	16		16

Recommended Curriculum for a Second Major in Geography

A student with a major in another department may take the following courses for a second major in Geography: Geography 101, 221, 271, 372, 373, 471, Geography Elective, six hours.

Recommended Curriculum for a Minor in Geography and Geology (With emphasis in Geography)

A student with a major and a minor in other departments may take the following courses for a minor in Geography and Geology: Geography 101, 221, 271, 372, 373, 471, Geology 301, and Geology Elective, three hours.

(With emphasis in Geology)

A student with a major and a minor in other departments may take the following courses for a minor in Geography and Geology: Geology 301, 305, 306, 307, 401, 474, Geography 101, and Geography Elective, three hours.

Recommended Curriculum for a Minor in Geology

A student with a major or minor in other departments may take a minor in Geology. For secondary certification the minor must be taken in conjunction with a major or minor in another science or mathematics. Recommended curriculum: Geology 200, 304, 305, 306, 307, 401. Supporting science: Chemistry 111, 112; Mathematics 107, 113; Geography 202. Physics 131 and 132 may be taken instead of Chemistry 111 and 112.

GEOGRAPHY AND GEOLOGY

(Recommended curriculum for a major in Geography and Geology without right of teaching certificate)

First Year

First Semester	Hours	Second Semester	Hours
English 101	3	English 102	3
Geography 101	3	Geography 102	3
Military Science 101 (Men)		Military Science 102 (Men)	
or		or	
Elective (Women)	2	Elective (Women)	2
Physical Education 115	1	Physical Education 116	1
Science 111	3	Science 112	3
Orientation 100	1	Elective	5
Elective	4	Orientation 101	1
	<hr/> 17		<hr/> 18

Second Year

Art 200	3	English 212	3
English 211	3	Geography 271 or 202	3
Geography 221	3	Geology 301	3
History 246	3	History 247	3
Military Science 201 (Men)		Military Science 202 (Men)	
or		or	
Elective (Women)	2	Elective (Women)	2
Elective	3	Elective	3
	<hr/> 17		<hr/> 17

Third Year

Geography 330	3	Geography 373	3
Geography 372	3	Geography 471	3
Geology 305	3	Geography 473	3
Music 271	3	Health 201	3
Elective	5	Elective	5
	<hr/> 17		<hr/> 17

Fourth Year

Geography 475	3	Elective	17
Geology 307 or 474	3		
Elective	11		
	<hr/> 17		<hr/> 17

EARTH SCIENCE

(Recommended curriculum for a major in Earth Science with right of teaching certificate)

First Year

First Semester	Hours	Second Semester	Hours
Chemistry 111 or Physics 131.4 or 5	5	Chemistry 112 or Physics 132.....	5
English 101	3	English 102	3
Mathematics 107	3	Mathematics 113	3
Military Science 101 (Men)	3	Military Science 102 (Men)	3
or		or	
Elective (Women)	2	Elective (Women)	2
Orientation 100	1	Orientation 101	1
Physical Education 115.....	1	Physical Education 116.....	1
Social Science 100.....	3	Social Science 101	3
	17 or 18		18

Second Year

Biology 131	3	Biology 141	4
English 211	3	Education 202	2
Geology 200	4	English 212	3
History 246	3	*Geography 202	3
Mathematics 232	3	History 247	3
Military Science 201 (Men)	3	Military Science 202 (Men)	3
or		or	
Elective (Women)	2	Elective (Women)	2
	18		17

Third Year

Geology 304	3	*Agriculture 215	4
Geology 305	3	Education 315	2
Health 201	3	Geology 307	3
Psychology 211	3	*Mathematics 321	3
**Elective in Humanities	3	**Elective in Humanities	3
Elective	3		
	18		15

Fourth Year

Education 316	2	Education 364	6
Geology 401	3	Education 463	10
Elective	11		
	16		16

*These courses are required for a major in Earth Science.

**Restrictive elective to include six hours chosen from the following courses:
Art 200, Art 390, Art 391, Foreign Language six hours, Music 271, Music 372.

GEOGRAPHY AND GEOLOGICAL SCIENCES

GEOGRAPHY

LOWER DIVISION COURSES

Geography 101. (Formerly Geography 10.) Principles of Geography: Elements and Factors. **Three hours.**

The field of modern geography; earth as a member of the solar system; earth's form and movements; geographical elements; elements of weather; climates of earth; the biotic factors; the physiographic factors; edaphic and pedologic factors; the mineral factors; the hydrographic factors; the spatial factors; the social factors; the geographic unit; geographic tools; a brief history of the changing aspects of geography.

Geography 102. Principles of Geography: Regions and Societies of the World. **Three hours.**

Prerequisite: Geography 101.

The nature of regional geography; regions of the continents; geographic patterns of mankind; population problems; man and his environment; human development of races, religions, governments, cultures, industries, institutions, occupations and activities; geography of cities; urban and rural groups; problems of today and tomorrow.

Geography 202. (Formerly Geography 20.) Climatology. **Three hours.**

Weather and weather observation; elements of climate; climate regions of the world—a study of climate as affected by the physical factors of sun, mountains, land and water; changes in temperature, pressure, winds—direction and force; humidity; cloud phenomena, precipitation, and the major types of storms; forecasting; the climatic regions of the world; weather conditions and their relation to human activities.

Geography 221. (Formerly Geography 21.) Economic Geography of the Industries. **Three hours.**

The more important agricultural products: cereals, starch foods; forage crops; vegetable crops; fruit crops; wine industries; sugar; vegetable oils; condiments and tobacco; vegetable fibers; non-food vegetables; the animal food stuffs; animal fibers; furs, skins, the mining industries; manufacturing; aluminum; automobile; copper; chemical; textiles; leather; iron and steel; paint; petroleum; rubber; etc.; trade routes; inland North American and international trade routes; world trade centers.

Geography 271. (Formerly Geography 22.) Geography of Anglo-America. **Three hours.**

Prerequisite: Geography 101 or 102.

This course is a detailed study of the Conterminous United States, Canada, and Alaska; structure and physiography; climate; the geographic regions of these three areas, such as the Spring Wheat Region, the Coasts of Newfoundland and Labrador, the North Pacific Coast and Mountains, the Yukon Valley, the Cotton Belt, the Lower Region, Central California, etc.

UPPER DIVISION COURSES

(Open to Junior, Senior, and Graduate Students)

Geography 300. (Formerly Geography 30.) Geography of the South. **Two hours.**

Prerequisite: Geography 101 or 102.

The South, yesterday and today; the advancing South; the physical landscape; the cultural landscape; the major regions; the people of the South; the races and their distribution and problems; transportation facilities; agriculture, its development, its regions, its problems, and possibilities; power resources; mineral wealth; forest resources; manufacturing and industries; comparison of rural and urban communities of the South; the South's future.

Geography 330. (Formerly Geography 23 and 230.) World Democracy and Geopolitics. **Three hours.**

Geopolitics; the ideological conflict; backgrounds of nationalism; the global war and strategy; social factors; economic factors; political factors; physical factors; religion and war; educational impacts; cultural factors; health and physical fitness; land and ocean warfare; military factors; diplomacy and war; after war, what?

Geography 372. (Formerly Geography 32.) Geography of Europe. **Three hours.**

Prerequisite: Geography 101 or 102.

The general geographic setting of Europe as a whole; the physiography, climate, economic and political geography of each of the major countries; European trade and commerce; the geographic advantages and handicaps of the various European countries that have resulted from the changes in boundaries that followed the World Wars.

Geography 373. (Formerly Geography 33.) Geography of Latin America. **Three hours.**

Prerequisite: Geography 101 or 102.

International importance of Latin America; growing interest of the United States in Latin America; historical geography of discovery, settlement and development; Caribbean resources; the Panama Canal; South America in world trade; population distribution; transportation facilities; climatic and physiographic regions; economic geography of the Pampas, the Amazon Basin, Central Mexican Plateau; the Llanos, Andean Highlands.

Geography 471. (Formerly Geography 40.) Geography of World Problems. **Three hours.**

Prerequisite: Six hours of geography.

Geography and the evolution of nations; the expansion of Europe; European influence in world affairs; economic resources; the British Empire and its many problems—India, Egypt, Ireland, South Africa; geography and problems of major nations of the Orient; Islamism; Russia, past and present; Europe in Africa; the problems of the Far East.

Geography 473. (Formerly Geography 41.) Geography of Asia. **Three hours.**

Prerequisite: Geography 101 or 102.

The structure of Asia; the physiography of Asia; the climates of Asia; the vegetation of Asia; the population of Asia; the exploration and exploitation of Asiatic countries by European nations; Asia's position in the world; the agricultural resources of Asia; summary of the economic resources of Asia; Turkey; Arab Asia; the Iranian Plateau; India; Burma; Ceylon; Southeastern Asia; the East Indies; China; Japan; Asiatic Russia; growing interest of the United States in Asia; the geographic advantages and disadvantages of the continent.

Geography 475. (Formerly Geography 43.) Geography of Africa. **Three hours.**

Prerequisite: Geography 101 or 102.

Structure; physiography; climate; vegetation; population; exploration; exploitation; position in world affairs; agricultural and economic resources; transportation; climatic and physiographic regions; foreign trade and foreign interests; comparisons and contrasts with other continents; the geographic advantages and disadvantages; changes resulting from the World Wars and post-war conditions; present-day problems and their geographic background.

Geography 476. Australia and Oceania. **Three hours.**

Prerequisite: Geography 101 or 102.

Physiography; climates; populations; economic and industrial activities; political relationships and problems; native and European cultures of the Pacific World; the locational factors of this area in peace and war.

Geography 477. (Formerly Geography 44.) Conservation of Natural Resources. **Three hours.**

History of the conservation movement; the forest resources; soil depletion and restoration; the land resources; the fertilizer resources; water origin and supply; water power; irrigation and reclamation; navigation; the mineral resources; the mineral fuels; coal, petroleum, natural gas; the metallic resources: iron, copper, lead, gold, zinc, aluminum, silver, uranium and radium; the human resources; agricultural outlook.

GRADUATE DIVISION COURSES

Geography 500. Historical Geography. **Three hours.**

Prerequisite: 12 hours of Social Science or 6 hours of Geography.

The geography of the world and the United States in the past; the relations between earth's conditions and resources on the one hand, and the historical development of nations on the other; the adjustments of nations and peoples to varied environments; the evolution of the environmental relationships of the people in selected areas of the world; evolutionary geography.

Geography 501. Geography in Education. **Three hours.**

Prerequisite: 12 hours of Social Science or 6 hours of Geography.

A survey of geography in the present day school systems of the world from the elementary school to the university; examination and comparison of courses of study; objectives; outlines; offerings and problems; evaluation of departments; geographic literature; equipment; books; magazines; and other materials; the place of geography in the service of the nations.

GEOLOGY

LOWER DIVISION COURSES

Geology 200. Elementary Geology. **Four hours.**

An introductory course in geology. Elementary map interpretation and study of various phases of geology such as weathering, erosion, structure, vulcanism, and mountain building; introduction to mineral and rock classification. Includes one field trip. Three lecture and two laboratory hours.

UPPER DIVISION COURSES

Geology 301. Physical Geology. Three hours.

(A student may not receive credit for both Geology 200 and Geology 301.)

A course in general geology including the study of common minerals and rocks; geological processes; and a brief discussion of historical geology. The course is designed primarily for non-science majors. Three lecture and two laboratory hours.

Geology 304. Field Geology. Three hours.

Prerequisite: Geology 200.

An introduction to field methods involving the identification and tracing of formations; geologic mapping; and fossil study. One lecture and four hours of field work.

Geology 305. Historical Geology. Three hours.

Prerequisite: Geology 200 or 301.

The course deals primarily with the history of the earth and involves certain aspects of astronomy, anthropology, and biology in addition to geology. Elementary laboratory exercises and lecture material which treats the origin of the earth and mountains; history and origin of the North American continent; the geologic time table; evolution and classification of plants and animals; laboratory recognition of the major groups of plants and animals. Two lecture and two laboratory hours.

Geology 306. Geomorphology. Three hours.

Branch of science that deals with the surface features of the globe, their form, nature, origin, and development, and the changes they are undergoing. Designed to introduce geology to the teacher with emphasis on current geologic interests and findings. Some elementary map interpretation of landforms. Three lecture hours.

Geology 307. Economic Geology. Three hours.

Prerequisite: Geology 200 or 301.

The application of geology to mineral materials. A summary of modern knowledge about where and how our valuable mineral resources are formed by nature. Non-geological background material to give the beginner an appreciation of minerals (Metallic, non-metallic, and fuels) and their importance to mankind. Two lecture and two laboratory hours.

Geology 360. Principles of Geology. Four hours.

Designed as an introductory course and assumes little or no previous knowledge of geology. Both physical and historical principles are emphasized. Laboratory consists of rock, mineral, and fossil identification, map studies, and field trips. Lecture three hours, laboratory and discussion two hours.

Geology 401. Elementary Structural Geology. Three hours.

Prerequisite: Geology 200 and Mathematics 113.

An introductory course in structural geology. A detailed analysis is made of earth structure in reference to genetic classification and the relationship to the earth's mineral wealth. Two lecture and two laboratory hours.

Geology 474. Geography and Geology of Kentucky. Three hours.

Kentucky, its regions, climate, waters, soils, agriculture, occupations, manufacturing, cities, and natural resources. Regional geology and specific treatment of cave areas, natural bridges, Cumberland Falls, Cumberland Gap, Lake Cumberland, Kentucky Lake, Big Bone Lick, and river features. The future of Kentucky and its geographic and geologic associations.

GERMAN

Major—A minimum of 24 semester hours to be selected.

Minor—A minimum of 18 semester hours to be selected.

LOWER DIVISION COURSES

German 101. Elementary German. Three hours.

Pronunciation; grammar; intensive reading of easy material for both fluency and understanding; questions and answers in German on the reading.

German 102. Elementary German. Three hours.

Prerequisite: German 101 or one unit of high school German.

Continuation of grammar study begun in German 101; intensive reading of easy material; oral and written questions and answers in German on the reading.

German 201. Intermediate German. Three hours.

Prerequisite: German 101 and 102 or two units of high school German.

Grammar review; vocabulary building; reading of material of fair difficulty

German 202. Intermediate German. Three hours.

Prerequisite: German 201 or three units of high school German.

Grammar review; readings in classical material and in simple scientific German.

UPPER DIVISION COURSES

German 301. The German Novel. Three hours.

This is a course in the contemporary novel in twentieth-century Germany. One of the novels of a modern German novelist is read and evaluated in terms of its relationship to the literary movement of which it forms an integral part, and in relationship to its place in modern European literature. Representative novelists studied are: Thomas Mann, Hermann Hesse, Erich Maria Remarque, or Hermann Broch.

German 302. The German Novel. Three hours.

This course is essentially a continuation of German 301. The major novel begun in German 301 is finished, and other representative German novelists are studied and evaluated. An effort is made in the course to relate the work of the authors studied to the cultural and social environment which produced them, and to show how such cultural influences affected and influenced the literary works under consideration.

German 401. The German Drama. Three hours.

This is a course on the German drama. The first part of Goethe's *Faust* is read and analyzed. An effort is made in the course to evaluate Goethe's unquestioned and significant place in modern German literature.

German 402. The German Drama. Three hours.

This course is essentially a continuation of German 401. The reading of Goethe's *Faust* is continued, and one or more contemporary dramatists such as Gerhardt Hauptmann or Karl Zuckmeyer are also read and evaluated in terms of contemporary German culture, and also in relationship to their place in the contemporary European drama generally.

HEALTH

Recommended Curriculum for a Minor in Health Education:

The following courses make up the curriculum for the Health Education minor: Health 201, *202, *315, *364, *366, 410, 480, and Home Economics 231 and 307.

Students wishing to minor in Health Education must take 18 hours of course work including nine hours prescribed.

*Prescribed courses.

LOWER DIVISION COURSES

Health 201. (Formerly Health 100 and 201.) Personal and Community Health. **Three hours.**

A basic health content course with the emphasis on personal living habits and how they are affected by group living.

Health 202. (Formerly Health 20.) Safety and First Aid. **Two hours.**

This course is designed to prepare the student to meet emergencies in the school room, on the playground, on the athletic field, and in everyday life. The Standard Red Cross Certificate is awarded to those students completing the requirements of this course. Safety instruction is also included.

UPPER DIVISION COURSES

Health 315. Community Health Problems. **Two hours.**

This course emphasizes the place of the school in solving community health problems. Special consideration is given to maintaining safe and sanitary water and milk supplies, restaurant sanitation, and sewage disposal.

Health 364. The Organization of the School Health Program. **Two hours.**

A detailed study of the three phases of the school health program; health services, healthful school living, and health instruction. Consideration is given to coordinating school and community efforts in maintaining child health.

Health 366. (Formerly Health 365 and 366.) School Health Education. **Three hours.**

Methods, materials, and resources for effective teaching in health are presented in this course. Each student develops a teaching unit as a part of the basic health curriculum.

Health 410. Care and Prevention of Athletic Injuries. **Three hours.**

Problems of athletic injuries as they concern the coach. Discussion, demonstration, and practical experiences in the care and prevention of athletic injuries.

Health 480. Mental Health. **Three hours.**

Study of human behavior; the basic needs for positive mental health; personality growth and development; and emotional problems of children and youth.

HISTORY

(Recommended curriculum for a major in History with right of teaching certificate)

First Year

First Semester	Hours	Second Semester	Hours
Anthropology 100	3	Art 200	3
English 101	3	English 102	3
Foreign Language	3	Foreign Language	3
Military Science 101 (Men)		Military Science 102 (Men)	
or		or	
Elective (Women)	2	Elective (Women)	2
Physical Education 115	1	Physical Education 116	1
Science 111	3	Science 112	3
Orientation 100	1	Social Science 101	3
		Orientation 101	1
	<hr/> 16		<hr/> 19

Second Year

English 211	3	Education 202	2
History 202	3	English 212	3
History 246	3	History 203	3
Military Science 201 (Men)		History 247	3
or		Military Science 202 (Men)	
Elective (Women)	2	or	
Science 109	3	Elective (Women)	2
Elective	3	Psychology 211	3
	<hr/> 17	Science 110	3
			<hr/> 19

Third Year

Education 315	2	Education 316	2
History 340	3	European History Elective	3
Elective	12	History 498	3
	<hr/> 17	Music 271	3
		Elective	6
			<hr/> 17

Fourth Year

Education 384	2	Education 364	4
Health 201	3	Education 463	10
History 448	3	Social Science 466	2
History 499	3		
History Elective	3		
Elective	3		
	<hr/> 17		<hr/> 16

Recommended Curriculum for a Second Major in History

A student with a first major in some other department may take the following courses for a second major in History: History 202, 203, 246, 247, 340 or 341, 344 or 444, 448, 498, 499.

Recommended Curriculum for a Minor in History

A student with a major and a minor in other departments may take the following courses for a minor in History: History 202, 203, 246, 247, 340, and three hours elective in European History.

HISTORY

(Recommended curriculum for a major in History without right of teaching certificate)

First Year

First Semester	Hours	Second Semester	Hours
Anthropology 100	3	Art 200	3
English 101	3	English 102	3
Foreign Language	3	Foreign Language	3
Military Science 101 (Men)		Military Science 102 (Men)	
or		or	
Elective (Women)	2	Elective (Women)	2
Physical Education 115	1	Physical Education 116	1
Science 111	3	Science 112	3
Orientation 100	1	Social Science 101	3
		Orientation 101	1
	<hr/> 16		<hr/> 19

Second Year

English 211	3	English 212	3
History 202	3	History 203	3
History 246	3	History 247	3
Military Science 201 (Men)		Military Science 202 (Men)	
or		or	
Elective (Women)	2	Elective (Women)	2
Psychology 211	3	Science 110	3
Science 109	3	Elective	3
	<hr/> 17		<hr/> 17

Third Year

History 340	3	English Elective	3
Elective	14	European History Elective	3
		History 498	3
		Music 271	3
		Elective	5
	<hr/> 17		<hr/> 17

Fourth Year

Health 201	3	Elective	16
History 448	3		
History 499	3		
History Elective	3		
Elective	4		
	<hr/> 16		<hr/> 16

HISTORY

LOWER DIVISION COURSES

History 202. American History to 1877. **Three hours.**

Discovery, exploration and conquest by nations; colonization; colonial wars; alienation of the colonies from England and eventual revolution; establishment of government and development of nationalism; westward movement; Jacksonian democracy and reform; the slavery controversy; Civil War and reconstruction.

History 203. American History since 1877. **Three hours.**

Rise of industrialism; problems of the American farmer; social and cultural advance; the last American frontier; American imperialism; the World Wars; the Progressive movement and the New Deal; America as a great power since World War II.

History 246. History of Western Civilization. **Three hours.**

The emergence of pre-industrial culture; patterns of pre-industrial culture in the Near East, the Mediterranean Basin, and in Europe before the nineteenth century.

History 247. History of Western Civilization. **Three hours.**

The developing culture pattern of the industrial era of the nineteenth and twentieth centuries, with progressively more attention to its world-wide influences and with progressively more illustrative material drawn from the United States.

UPPER DIVISION COURSES

(Open to Junior, Senior, and Graduate Students)

History 339. Medieval Civilization. **Three hours.**

Prerequisite: History 246 and History 247.

A survey of Western Christian, Byzantine, and Saracenic cultures from the breakdown of the Roman Empire until the emergencies of the modern national states.

History 340. (Formerly History 30 and 241.) European History from 1300 to 1815. **Three hours.**

Renaissance; Reformation; rise of the national state and royal absolutism; decline of manorialism; rise of capitalism and the mercantile system; the British revolutions of the seventeenth century; international rivalries; the age of reason and enlightened despotism; the French Revolution and Napoleon.

History 341. (Formerly History 35.) English History to the Industrial Revolution (500-1763). **Three hours.**

Significance of medieval English history; the struggle for political unity; the growth of royal authority; the feudal reaction and the rise of parliament; the transition from medievalism; Tudor absolutism; the revolt against absolutism; the restoration of limited monarchy; imperial expansion; the Intellectual Revolution.

History 342. (Formerly History 37.) English History from the Industrial Revolution to the Present (1763-1964). **Three hours.**

Economic backgrounds of the 19th century; the golden age of liberalism; Gladstone and Disraeli; trends in Victorian thought; collectivism and industrial unrest; politics in the postwar era; the price of appeasement; Britain in World War II; crisis and recovery.

History 344. (Formerly History 31.) European History 1815-1914. **Three hours.**

The peace settlement of 1815; liberalism, nationalism and radicalism; the revolutionary movements of 1820-21, 1830-31, 1848-49; the unification of Italy and Germany; Bismarckian diplomacy; the causes of World War I.

History 347. (Formerly History 40.) Recent and Current World History, 1914 to the Present. **Three hours.**

World War I; the peace settlement of 1919; the problems of security, war debts and reparations; the disintegration of the peace settlement; World War II.

History 348. Latin American History. **Three hours.**

The land and people at the time of discovery; exploration and appropriation; colonization and struggle for independence; recent conditions and developments with special emphasis upon relations with the United States.

History 349. (Formerly History 34.) Survey of the Far East. **Three hours.**

This course centers mainly about China and Japan, with the European Nations and America brought in when their policies lead into the area. Some attention is given also to India, Australia and to islands of the Pacific.

History 402. The American Revolution and the Constitution. **Three hours.**

Prerequisite: History 202 or consent of instructor.

Colonial background of Revolution: internal as well as external nature of Revolution; problems associated with Confederation; and events leading up to the American Constitution.

History 404. The Ante-Bellum Period. **Three hours.**

Prerequisite: History 202 or consent of instructor.

Political sectionalism; young nationalism; economic transition; democracy's mind; politics as an art.

History 405. America's Westward Expansion. **Three hours.**

Prerequisite: History 202 and 203, or consent of instructor.

The Colonial frontier; conflicts of Empire; trans-mountain movements; the Ohio-Mississippi valleys; Indian problems; Manifest Destiny; the West and the sectional struggle; the trans-Mississippi frontiers of mining, railroads, cattle, and agriculture; West versus East.

History 406. The South in American History. **Three hours.**

Prerequisite: History 202 and 203, or consent of instructor.

Colonial developments in society and politics; the origins of sectional consciousness; the institutions of Negro slavery and the plantation system; southern ideas and ideals; the Civil War and Reconstruction; the modern South.

History 407. Civil War and Reconstruction. **Three hours.**

Prerequisite: History 202 or consent of instructor.

The ante-bellum South, the ante-bellum North; anti-slavery agitation, the growth of sectional consciousness, recurrent crises, secession, and war; military operations, internal developments in the North and South; the Confederate collapse; problems of reconstruction; social, political, and economic reconstruction; aftermath.

History 411. (Formerly first part of History 407.) Recent American History (1900-1929). **Three hours.**

Impact of industry and science; the movements of protest and change; America as a world power; World War I; big business, labor and agriculture in the 1920's; politics and prosperity.

History 412. (Formerly last part of History 407.) Recent American History (1929 to Present). **Three hours.**

The Great Depression; the Hoover administration and the New Deal; social, economic and political changes in the 1930's; isolationism and World War II; revival of big business; America's new responsibilities in the world.

History 430. American Social and Intellectual History to 1850. **Three hours.**

Prerequisite: History 202 or consent of instructor.

European influences; the colonial mind; revolutionary attitudes; New England's leadership; the movement of protest and reform; the rise of a native literature.

History 431. American Social and Intellectual History since 1850. **Three hours.**

Prerequisite: History 203 or consent of instructor.

The Civil War; Protestantism and Capitalism; Social Darwinism; the literature of naturalism and realism; the twentieth century mind.

History 440. Renaissance and Reformation. **Three hours.**

This course will deal with the transformation of European civilization from the medieval to the modern period, 1350-1650. Special emphasis will be placed upon changes in the political, religious, and economic institutions of Europe and the reflection of these changes in intellectual thought.

History 441. The Age of the Enlightenment. **Three hours.**

European intellectual history, 1650-1789; the scientific revolution, the Cartesian and Newtonian schools; the Enlightenment as a European phenomenon; special emphasis on the eighteenth century as an age of political and social criticism.

History 442. The French Revolution and Napoleon, 1789-1815. **Three hours.**

Background for the French Revolution; analysis of the various stages of the Revolution and their reflection in foreign policy; the establishment of the First Empire and the reasons for its collapse; the effects of the French Revolution upon France and Europe; 1815 as a watershed of European history.

History 444. European Social and Intellectual History since 1815. **Three hours.**

A study of European civilization in the 19th and 20th centuries with special emphasis upon institutions, ideas, and cultural forms distinguishing the period.

History 445. Europe from 1815 to 1870. **Three hours.**

The Congress of Vienna and reaction following the Napoleonic wars; the revolutions of 1820, 1830, and 1848; liberalism, realism, and nationalism; the growth of science and technology.

History 446. Europe from 1870 to 1914. **Three hours.**

A survey of the rapidly growing European society, economy, and world-wide impact in the period of uneasy European peace prior to the First World War; industrialism; imperialism; the diplomatic background of World War I.

History 448. (Formerly History 55a and 448a) Topics in History and Social Science. **Three hours.**

(Required of and open only to students majoring in history or social science.)

Prerequisites: History 202, 203, 246, 247, 340, and 344.

This course is designed to introduce students to the elements of research in social science and history and to develop facility of expression in writing. Selection of topics for study will be made on the basis of the previous training and special interests of the students participating. Topics may be selected in American or European history or in economics, government, or sociology.

History 461. (Formerly History 46.) Kentucky History. **Three hours.**

General, social, economic, and political history of Kentucky; her influence in the development of American democracy; her periods of leadership in the nation; her educational system; Kentucky's great men and women; historical sources of Kentucky.

History 498. The Ideological Foundations of Western Civilization. Three hours.

(Required of all undergraduate and graduate students majoring or minoring in history or social science.)

Introduction to the basic concepts in the ideological heritage of the Western World from the end of the medieval age through the Enlightenment. Reading materials will consist largely of selections from the great books and documents in religion, science, economics, political theory, and philosophy.

History 499. The Ideological Foundations of Western Civilization. Three hours.

(Required of all undergraduate and graduate students majoring or minoring in history or social science.)

Introduction to the basic concepts in the ideological heritage of the Western World from the Enlightenment to the present. Reading materials will consist largely of selections from the great books and documents in religion, science, economics, political theory, and philosophy.

GRADUATE DIVISION COURSES

History 504. (Formerly History 449.) History as a Social Science. Three hours.

The scientific approach to social problems and their historical interpretation; an analysis of the economic, social, intellectual, and political backgrounds of contemporary civilization.

History 505. Problems in American History. Three hours.

Prerequisite: Consent of instructor.

An examination of some of the basic controversial aspects of the development of the American people and their culture. Relevant areas might include Protestantism, capitalism, agrarianism, sectionalism, liberalism, internationalism.

History 506. Topics in Nineteenth Century American History. Three hours.

A course using a seminar approach to major topics of American history from 1800 to 1900. Examples of possible topics: The triumph of Jeffersonian democracy and agrarianism; economic aspects of sectionalism; anti-slavery agitation as a cause of the Civil War; opposition to the Lincoln administration in the North during the Civil War; economic effects of the Civil War.

HOME ECONOMICS

(Suggested for an Area in the Field of Vocational Home Economics with right of teaching certificate. Deviation from this curriculum may be permitted to take care of individual differences.)

First Year

First Semester	Hours	Second Semester	Hours
Art 117	3	Biology 219	3
English 101	3	English 102	3
Home Economics 204 or 215	3	Home Economics 203	3
Physical Education 115	1	Home Economics 215	3
Science 111	3	Physical Education 116	1
Social Science 100	3	Social Science 101	3
Orientation 100	1	Orientation 101	1
	17		17

Second Year

Art 200	3	Chemistry 112b	5
Chemistry 111	4	Education 202	2
History 246	3	History 247	3
Home Economics 206	3	Home Economics 231	3
Home Economics 208	3	Music 271	3
		Psychology 211	3
	16		19

Third Year

Economics 230	3	Education 304	4
English 211	3	Education 316	2
Home Economics 301	3	English 212	3
Home Economics 302	3	Home Economics 305	3
Home Economics 322	3	Home Economics 306	3
Home Economics 350	3	Home Economics 330	3
	18		18

Fourth Year

Home Economics 307	3	Education 364	4
Home Economics 402	3	Education 463	10
Home Economics 403	5	Education 466	3
Sociology 231 or 332	3		
Elective	2		
	16		17

Recommended Curriculum for a Minor in Home Economics

A student with a major and a minor in other departments may take the following courses for a minor in Home Economics: Foods, 6 hours; Clothing, 6 hours; House, 3 hours; Family and Child Development, 3 hours.

Classification of Home Economics Courses

For certification purposes Home Economics courses are classified as follows:

Housing, Home Furnishings, Equipment: 301, 322, 350.

Foods and Nutrition: 204, 215, 302, 306, 406.

Clothing and Textiles: 101, 155, 203, 206, 305, 308, 455.

Health and Home Care of Sick: 231.

Family Relationships and Child Care: 208, 307, 338, 402.

Family Economics and Home Management: 330, 403.

HOME ECONOMICS

LOWER DIVISION COURSES

Home Economics 101. (Formerly Home Economics 10.) Textiles. **Two hours.**
Physical and chemical characteristics of the various textile fibers; the weaves, finishes, durability and care of fabrics; application of scientific information to the purchase and use of fabrics.

Home Economics 155. (Formerly Home Economics 12.) Costume Design. **Two hours.**
Principles of design as related to the costume; study of line, color, and texture in fabrics as related to different types of individuals.

Home Economics 203. (Formerly Home Economics 20.) Garment Making. **Three hours.**
Clothing selection, fabric, planning and construction. A study of factors that influence the selection of a college wardrobe. Fundamental construction techniques, use of commercial patterns, fittings and alterations. Lecture one hour and laboratory work.

Home Economics 204. Introduction to Foods and Nutrition. **Three hours.**
Nutritional properties of foods with emphasis on the conservation of these properties in food preparation.

Home Economics 206. (Formerly Home Economics 23.) Dressmaking. **Three hours.**
Prerequisite: Home Economics 203 or its equivalent.
Selection, construction and consumer education. Advanced problems in the selection, planning, construction techniques and problems effecting the consumer in relation to clothing. Lecture one hour and laboratory work.

Home Economics 208. Personal Relationships in the Home and Community. **Three hours.**
Personality development and personal problems in adjustment are studied. Consideration is given to individual adjusting to home, school, vocation, marriage, and community. Required of all sophomores in home economics. Open to non-majors in home economics.

Home Economics 215. Food Management. **Three hours.**
Prerequisite: Home Economics 204 or its equivalent.
The planning, preparing and serving of foods with emphasis on management of the nutritional, cultural, economic and aesthetic factors involved in meeting the food needs of individuals and families.

Home Economics 231. (Formerly Health 22 and 231.) Health and Home Care of the Sick. **Three hours.**
The health of the family and simple procedures for the care of patients in the home are stressed.

UPPER DIVISION COURSES

(Open to Junior, Senior, and Graduate Students)

Home Economics 301. (Formerly Home Economics 30.) Household Equipment. **Three hours.**

Standards for selecting and buying household equipment and small appliances. Providing for adequate electric and gas service in home. Maintenance of household equipment and appliances.

Home Economics 302. Experimental Foods. **Three hours.**

Prerequisite: Home Economics 215; Chemistry 111 and 112b.

An experimental study of food from the physical and chemical viewpoint. Individual oral and written presentations of current research problems.

Home Economics 305. (Formerly Home Economics 34.) Tailoring and Design. **Three hours.**

Prerequisite: Home Economics 203 and 206; Chemistry 111 and 112b.

A study of design in clothing and tailoring. Construction techniques in tailoring a suit or coat. Lecture one hour and laboratory work. This course planned for teacher education. The students prepare teaching materials for use in clothing classes.

Home Economics 306. Advanced Nutrition. **Three hours.**

Prerequisite: Biology 219, Chemistry 112b, Science 111.

Nutrition as it affects the individual, the family, and the community under varying conditions and circumstances. Current research in selected topics related to maternal and child nutrition and other nutritional problems of national and international scope.

Home Economics 307. The Family in the Home and the Community. **Three hours.**

Problems relative to marriage. Factors which contribute toward developing a well adjusted family; relation of the family in the community.

Home Economics 308. (Formerly Home Economics 37.) Advanced Textiles. **Three hours.**

Prerequisite: Home Economics 101. Chemistry 111 and 112b.

The advanced study of textile fibers; chemical tests.

Home Economics 309. Principles of Nutrition. **Three hours.**

This course includes non-technical nutritional information. Emphasis is placed on the use of nutritional information for promoting a high degree of physical fitness. Study is made of menus, family food budgets, and recent trends in American dietary habits.

Home Economics 310. Nutrition for the Elementary Teacher. **Two hours.**

The fundamentals of nutrition. The importance of good nutrition to the child. Ways to interest the child in good nutrition. Results of good nutrition.

Home Economics 322. (Formerly Home Economics 222.) Interior Decoration. **Three hours.**

Prerequisite: Art 117.

Decoration and furnishing for the interior of the house. Laboratory work in refinishing of furniture, slip covers and drapes.

Home Economics 330. (Formerly Home Economics 33.) The Family as a Consumer. **Three hours.**

An appreciation of the factors which influence home and family living; a study of management problems relating to: Time, energy, money, equipment, as well as personal development in relationships and hospitality.

Home Economics 338. Current Trends in Child Development. Three hours.

Study of current concepts and trends in the study of child development. Includes recent research concerning problems in child growth and development, and methods of presenting child development to high school groups.

Home Economics 350. (Formerly Home Economics 250.) The House. Three hours.

Architecture; house plans; landscaping; materials suitable for building a home, financing a home.

Home Economics 402. (Formerly Home Economics 41.) Child Development. Three hours.

Prerequisite: Psychology 211 and Education 316.

Care necessary for physical, mental, emotional, and social development of the child from infancy through adolescence; observation of children.

Home Economics 403. (Formerly Home Economics 43.) Home Management. Five hours.

Prerequisite: Home Economics 302, 306 and 330.

Improvement of skills in the management of time, money, and energy; meal planning; food buying; preparation and serving of meals; cleaning; laundrying. Family relationships, etiquette, and hospitality are emphasized.

Reservations for appointment to live in the Home Management House should be made several weeks prior to the beginning of the semester.

Home Economics 406. Newer Knowledge of Nutrition. Three hours.

Prerequisite: Home Economics 306.

Study of latest research in nutrition and diets in relation to diseases.

Home Economics 455. (Formerly Home Economics 42.) Advanced Costume and Design. Three hours.

Prerequisite: Home Economics 155 and Art 117.

The application of art principles in color and line, in designing and construction of garments.

Home Economics 456a. Special Problems in Home Economics. One hour.

The student chooses a problem and works under the supervision of the instructor in the field of the problem.

Home Economics 456b. Special Problems in Home Economics. One hour.

A continuation of Home Economics 456a.

Home Economics 456c. Special Problems in Home Economics. One hour.

A continuation of Home Economics 456b.

INDUSTRIAL ARTS

COMPREHENSIVE AREA CURRICULUM

(Recommended curriculum for a major in the area of Industrial Arts with right of teaching certificate)

First Year

First Semester	Hours	Second Semester	Hours
English 101	3	English 102	3
Industrial Arts 141	3	Industrial Arts 130	1
Industrial Arts 191	3	Industrial Arts 180	3
Military Science 101	2	Industrial Arts 292	3
Physical Education 115	1	Military Science 102	2
Science 109	3	Physical Education 116	1
Orientation 100	1	Science 110	3
		Orientation 101	1
	16		17

Second Year

Art 117	3	Biological Science Elective	3
English 211	3	Education 202	2
Industrial Arts 233	2	English 212	3
Industrial Arts 242	3	Industrial Arts 351	3
Industrial Arts 281	3	Military Science 202	2
Mathematics 107	3	Psychology 211	3
Military Science 201	2	Science Elective	3
	19		19

Third Year

Art 202	3	Education 316	2
Education 315	2	Industrial Arts 343	3
Health 201	3	Industrial Arts 353	3
Industrial Arts 311	3	Industrial Arts 467	3
Industrial Arts 382	3	Social Science Elective	3
Social Science Elective	3	Elective	3
	17		17

Fourth Year

Industrial Arts 372	3	Education 364	4
Industrial Arts 394	3	Education 463	10
Industrial Arts Elective	3	Industrial Arts 466	3
Social Science Elective	6		
Elective	3		
	18		17

Industrial Arts courses are to be selected to complete a total of 50 semester hours.

Recommended Curriculum for a First Major in Industrial Arts:

A student may take the following courses for a first major in Industrial Arts and other departmental courses for a second major or minors: Industrial Arts 130, 141, 180, 191, 233, 242, 281, 292, 351, 394, 466, and elective to total 36 hours.

INDUSTRIAL ARTS

TECHNICAL AREA CURRICULUM

(Recommended curriculum for a major in the area of Industrial Arts with right of teaching certificate)

First Year

First Semester	Hours	Second Semester	Hours
English 101	3	English 102	3
Industrial Arts 141	3	Industrial Arts 130	1
Industrial Arts 191	3	Industrial Arts 180	3
Mathematics 107	3	Industrial Arts 292	3
Military Science 101	2	Military Science 102	2
Physical Education 115	1	Physical Education 116	1
Social Science 100	3	Social Science 101	3
Orientation 100	1	Orientation 101	1
	19		17

Second Year

English 211	3	Education 202	2
Industrial Arts 242	3	English 212	3
Industrial Arts 281	3	Industrial Arts 233	2
Industrial Arts 351	3	Industrial Arts 311	3
Mathematics 113	3	Industrial Arts 353	3
Military Science 201	2	Military Science 202	2
		Psychology 211	3
	17		18

Third Year

Art 117	3	Education 316	2
Education 315	2	Industrial Arts 343	3
Health 201	3	Industrial Arts 467	3
Industrial Arts 382	3	*Industrial Arts Elective	3
Physics 131	5	Physics 132	5
	16		16

Fourth Year

Art Elective	3	Education 364	4
Industrial Arts 372	3	Education 463	10
Industrial Arts 394	3	Industrial Arts 466	3
*Industrial Arts Elective	2		
Social Science Elective	6		
	17		17

*To be elected from one major area.

Industrial Arts courses are to be elected to complete a total of 56 semester hours.

INDUSTRIAL ARTS

INDUSTRIAL TECHNOLOGY CURRICULUM

(Recommended curriculum in the area of Industrial Arts without right of teaching certificate for those planning to secure employment in industry)

First Year

First Semester	Hours	Second Semester	Hours
English 101	3	English 102	3
Industrial Arts 141	3	Industrial Arts 130	1
Industrial Arts 191	3	Industrial Arts 180	3
Mathematics 107	3	Industrial Arts 292	3
Military Science 101	2	Mathematics 113	3
Physical Education 115	1	Military Science 102	2
Social Science 100	3	Physical Education 116	1
Orientation 100	1	Social Science 101	3
		Orientation 101	1
	19		20

Second Year

English 211	3	English 212	3
Industrial Arts 242	3	Health 201	3
Industrial Arts 351	3	Industrial Arts 382	3
Military Science 201	2	Military Science 202	2
Physics 131	5	Physics 132	5
	16		16

Third Year

Chemistry 111	4	Art 117	3
Industrial Arts 233	2	Business 125	3
Industrial Arts 293, or 492	3	Economics 230	3
Industrial Arts 372	3	Industrial Arts 353	3
Mathematics 232	3	Industrial Arts Elective	3
Elective	2	Social Science Elective	3
	17		18

Fourth Year

Industrial Arts Elective	7	Industrial Arts Elective	7
Speech 131 or 205	3	Elective	9
Elective	6		
	16		16

Thirty semester hours should be completed in two of the departmental areas: Woods, Metals, Drawing, and Electricity-electronics.

INDUSTRIAL ARTS

LOWER DIVISION COURSES

Industrial Arts 130. Design Orientation. One hour.

An introduction to design theory and practice related to developing industrial arts projects. Emphasis on using contemporary materials and technical processes in solving design problems.

Industrial Arts 141. (Formerly Industrial Arts 11.) Elementary Woodwork. Three hours.

Basic woodworking course including instruction in the use of common hand tools, related information, problems in elementary furniture construction, wood turning, finishing and characteristics of common hard and soft woods.

Industrial Arts 180. General Metalwork I. Three hours.

Basic hand and elementary machine operations and related information in sheet metal, bench metal, art metal, arc and oxyacetylene welding, projects and practical shop problems in each area of activity.

Industrial Arts 191. (Formerly Industrial Arts 13.) Technical Drawing I. Three hours.

A beginning course stressing problem solving, lettering, sketching, orthographic projection, pictorial representation, tracing, and reproduction of drawings.

Industrial Arts 221. General Crafts. Two hours.

A basic crafts course involving activities in wood carving, lamination and sculpture; leathercraft, art metal enameling and jewelry; plastics. Emphasis on the avocational aspects of crafts.

Industrial Arts 233. (Formerly Industrial Arts 15.) Industrial Arts Design. Two hours.

Prerequisite: Industrial Arts 191.

Study and application of the principles of three-dimensional design related to industrial arts media. Emphasis placed on experimentation and problem-solving in developing design solutions. Design and construction of projects involving both handicraft and mass production processes.

Industrial Arts 241. General Woodworking. Two hours.

Basic operations and information units in hand and machine woodwork; common woods; care and maintenance of tools; finishing of woods; joinery and construction problems. Emphasis on woodworking as an avocation.

Industrial Arts 242. (Formerly Industrial Arts 21.) Intermediate Woodwork. Three hours.

Prerequisite: Industrial Arts 141.

Advanced hand woodworking units; operation of common woodworking machines; care and sharpening of tools; related information; construction and finishing of furniture projects.

Industrial Arts 243. General Woodworking II. Two hours.

Additional operations in machine and hand woodwork; joinery; related information; construction problems; finishing techniques and maintenance of equipment. Emphasis on woodworking as an avocation.

Industrial Arts 249. (Formerly Industrial Arts 14.) Wood and Metal Finishing. Two hours.

Prerequisite: Industrial Arts 141.

Characteristics of woods and metals; preparation of surface for finishing; staining, sealing, and filling; use of varnish, shellac and lacquer; art metal finishing; finishing abrasives and rubbing; refinishing of furniture.

Industrial Arts 281. General Metalwork II. **Three hours.**

Basic hand tool and elementary machine operations and related information in foundry, forging, heat treating and machine shop projects and practical problems in each area of activity.

Industrial Arts 283. (Formerly Industrial Arts 27.) Arc and Oxyacetylene Welding. **Three hours.**

Manipulative processes and related information basic to successful welding techniques.

Industrial Arts 292. (Formerly Industrial Arts 20.) Technical Drawing II. **Three hours.**

Prerequisite: Industrial Arts 191.

The making of detail and assembly drawings; production illustrations; forms of bolts, nuts, and threads; dimetric projections; Sepia and Van Dyke intermediates; sketches and drawings from actual parts.

Industrial Arts 293. (Formerly Industrial Arts 23.) Technical Drawing III. **Three hours.**

Prerequisite: Industrial Arts 191.

Advanced drafting techniques with special emphasis placed on map drafting and sheet metal layout.

Industrial Arts 294. (Formerly Industrial Arts 28.) House Planning. **Two hours.**

A course with general education values. Planning a residence, including site selection, floor plans, elevations, details, and specifications; orders of architecture; common styles of homes, interior features; building materials.

UPPER DIVISION COURSES

(Open to Junior, Senior, and Graduate Students)

Industrial Arts 303. (Formerly Industrial Arts 30.) Shop Planning and Equipment. **Two hours.**

Types of industrial arts shops; shop planning; machine and tool specifications; design of shop furniture; selection of supplies.

Industrial Arts 311. Graphic Arts I. **Three hours.**

A course in general graphic arts with emphasis on hand composition, elementary presswork, silkscreen principles, linoleum block printing and book-binding.

Industrial Arts 312. Graphic Arts II. **Three hours.**

A course in graphic arts with emphasis on machine printing, production techniques, and off-set lithography.

Industrial Arts 322. (Formerly Industrial Arts 16 and 222.) Industrial Arts for Elementary Teachers. **Three hours.**

Appropriate projects and media for elementary teachers, basic hand tools, use of native materials in elementary projects, classroom improvements and objects constructed typical of those used in the project method.

Industrial Arts 323. (Formerly Industrial Arts 32.) Weaving and Upholstery. **Two hours.**

Prerequisite: Industrial Arts 141.

Upholstering plain surfaces and frame structures; upholstering with springs; renovation; caning; split and fiber weaving; materials; tools and tool processes.

Industrial Arts 326. (Formerly Industrial Arts 29.) Crafts I. Three hours.

An introduction to activities involving various media in the crafts; leather; jewelry; art metal enameling; plastics; wood carving; the making of archery equipment; utilizing materials available to playgrounds, community centers and summer camps.

Industrial Arts 328. Crafts II. Three hours.

Prerequisite: Industrial Arts 326.

An advanced course in the crafts concerned with silversmithing; plastics; art metal; advanced art metal enameling.

Industrial Arts 343. (Formerly Industrial Arts 31a.) Advanced Woodwork I. Three hours.

Prerequisite: Industrial Arts 242.

Additional practice in furniture construction involving skill in the use of machines and hand tools; joinery; bending and laminating wood; finishing; wood technology; maintenance of equipment.

Industrial Arts 344. (Formerly Industrial Arts 33.) Wood Turning. Three hours.

Prerequisite: Industrial Arts 242.

Common wood turning problems, sharpening tools; operations in spindle, chuck, and faceplate turning; finishing and polishing.

Industrial Arts 345. (Formerly Industrial Arts 31b.) Advanced Woodwork II. Three hours.

Prerequisite: Industrial Arts 343.

Continuation of Industrial Arts 343 with increased emphasis on craftsmanship, the development of a high degree of skill in furniture construction and knowledge of related information.

Industrial Arts 346. (Formerly Industrial Arts 39 and 395.) Carpentry. Six hours.

Prerequisite: Industrial Arts 242.

Problems in small home construction; form building; framing, masonry; electrical wiring; interior finishing; painting; practice in actual construction.

Industrial Arts 351. Fundamentals of Applied Electricity. Three hours.

Principles of static and current electricity; measures of electricity; heat; light and power applied to the planning and construction of electrical installations; building of projects and repair of appliances.

Industrial Arts 352. Electrical Power and Motor Repair. Three hours.

Generation and distribution of electricity; power distribution systems; maintenance and repair of electrical motors.

Industrial Arts 353. Introduction to Radio and Electronics. Three hours.

Prerequisite: Industrial Arts 351.

Basic principles of radio, electronics and high fidelity; project construction and servicing techniques.

Industrial Arts 372. Fundamentals of Power Mechanics. Three hours.

A study of power sources and power trains. An understanding of the electrical, fuel, lubrication, and cooling systems employed on typical engines as well as hydraulics and pneumatics. Students will receive experiences on small engines and automotive power plants.

Industrial Arts 382. (Formerly Industrial Arts 34.) Machine Shop Practice I. Three hours.

Prerequisite: Industrial Arts 281.

Projects constructed involving basic operations performed on the lathe, drill press, shaper, bench grinder, power contour saw, and advanced bench work; blueprint reading and related information.

Industrial Arts 383. (Formerly Industrial Arts 35.) Art Metalwork. **Three hours.**

Techniques of designing, laying-out, raising; planishing, chasing, etching, spinning, soldering, engraving and finishing projects made of nonferrous metals.

Industrial Arts 385. (Formerly Industrial Arts 25.) Sheet Metalwork. **Three hours.**

Prerequisite: Industrial Arts 180 and 281.

Care and use of common sheet metal tools and machines; layouts; templates; projects involving soldering, seaming, punching, riveting, forming and spot welding.

Industrial Arts 394. (Formerly Industrial Arts 37.) Elementary Architectural Drawing. **Three hours.**

Prerequisite: Industrial Arts 191.

Basic principles of house planning; floor plans, raftar plans, foundation plans, plot plans, elevations, detail sheets, presentation sheets, specifications, material estimates; architectural modeling; comparative study of building materials; common styles of home architecture; a complete set of plans for a small home.

Industrial Arts 395. Descriptive Geometry. **Three hours.**

Application of the theory of orthographic projection to the graphical representation and solution of three-dimensional problems. (Same as Mathematics 395.)

Industrial Arts 401. Special Problems in Industrial Arts. **Three hours.**

A course for exceptional undergraduates involving independent study and research related to problems of a theoretical and/or practical nature.

Industrial Arts 433. Workshop in Industrial Arts. **Four hours.**

433a, Design; 433b, Graphic Arts; 433c, Plastics; 433d, Power Mechanics; 433e, Electronics; 433f, Wood Technology; 433g, Metals; 433h, Crafts.

Industrial Arts 444. (Formerly Industrial Arts 41.) Machine Woodworking. **Two hours.**

Prerequisite: Industrial Arts 242.

Special machine operations; repairing and servicing power woodworking machinery.

Industrial Arts 454. Advanced Radio and Electronics I. **Three hours.**

Prerequisite: Industrial Arts 353.

Advanced principles of radio, fundamentals of transistors, frequency modulation, transmitting procedures, and electronic servicing techniques.

Industrial Arts 455. Principles of Television. **Three hours.**

Prerequisite: Industrial Arts 454.

Introduction to television, antenna theory and installation, frequency modulation, transmitting procedures, closed circuit television operation and servicing techniques.

Industrial Arts 464. (Formerly Industrial Arts 42.) History and Philosophy of Industrial Education. **Two hours.**

The history of industrial education from its early beginning to the present; the contribution of leaders; movements in the development of industrial arts and vocational education; modern concepts of industrial arts; legislation for vocational education and the state plan.

Industrial Arts 466. (Formerly Industrial Arts 46.) Teaching of Industrial Arts. **Three hours.**

The function and objectives of industrial arts; the industrial arts curriculum; methods of presentation; instructional aids; planning, equipping and organizing the laboratory; instructional materials; demonstration lessons; evaluating student achievement.

Industrial Arts 467. Problems and Practices of the General Shop. **Three hours.**

The planning and organization of physical laboratory facilities with emphasis on the comprehensive general shop and the general unit shop. Preparation of instructional materials in the form of designs and exemplary projects.

Industrial Arts 487. (Formerly Industrial Arts 44.) Machine Shop Practice II. **Three hours.**

Prerequisite: Industrial Arts 382.

Continuation of Industrial Arts 382 with increased emphasis on machine, tool operations; gear cutting, tool and cutter grinding, problems in tool making; related technical information.

Industrial Arts 488. (Formerly Industrial Arts 45.) Machine Shop Practice III. **Three hours.**

Prerequisite: Industrial Arts 487.

Practice in advanced machine operations and tool making; heat treating of metals; related technical information.

Industrial Arts 489. Characteristics and Maintenance of Machine Tools. **Two hours.**

Prerequisite: Industrial Arts 487.

A study of machine design and construction; installing, servicing, powering, and rebuilding machine tools.

Industrial Arts 492. Technical Drawing IV. **Three hours.**

Prerequisite: Industrial Arts 292.

Machine drawing dealing with advanced detail drawing; advanced assembly drawing; patent drawing; production illustrations and tool design.

Industrial Arts 496. (Formerly Industrial Arts 47.) Advanced Architectural Drawing. **Three hours.**

Prerequisite: Industrial Arts 394.

Preparation of a complete set of plans for a three bedroom or larger home; study of building techniques and materials used in house construction; structural modeling.

GRADUATE DIVISION COURSES

Industrial Arts 562. Philosophy of the Practical Arts and Vocational Education. **Three hours.**

Background, purpose, and relationship of the practical arts and vocational education; relationship of both to total program of education; current philosophies of the practical arts and vocational education.

Industrial Arts 564. Special Problems in Industrial Arts. **One to six hours.**

Problems of particular value to the teacher in the field, both of a practical and of a research nature will be pursued by the student and developed through conferences and activities directed by the staff.

Industrial Arts 565. Curriculum Practices and Trends in Industrial Arts. **Three hours.**

Current concepts and trends in industrial arts; principles underlying curriculum construction and development; long range planning for improvement of programs.

Industrial Arts 566. Seminar in Industrial Arts. Three hours.

A course designed for the graduate student in industrial arts. Current problems and issues in the total field of industrial education will be studied with an emphasis placed on identifying their philosophical and/or psychological dimensions. Research techniques appropriate for industrial education with an emphasis on experimental design and statistical procedures of analysis. Each student will be expected to plan and complete a minor research paper, and to present his findings to the seminar.

Industrial Arts 567. Thesis Research in Industrial Arts. Six hours.

Students preparing theses are expected to register for three hours of thesis research in each of two semesters.

Industrial Arts 568. Advanced Design. Three hours.

An advanced course in design emphasizing problem-solving and experimentation with industrial arts media.

Eastern's Industrial Arts Department is ranked among the top in the United States.



LATIN

Major—A minimum of 24 semester hours to be selected.

Minor—A minimum of 18 semester hours to be selected.

LOWER DIVISION COURSES

Latin 101. (Formerly Latin 115 and 10.) Elementary Latin. **Three hours.**

Pronunciation; declension of nouns, adjectives, and pronouns; indicatives; infinitives; simple uses of subjunctive verbs; acquisition of the fundamental principles of the language; ability to read simple Latin prose dealing with Roman home life, mythology, and Roman history.

Latin 102. (Formerly Latin 116 and 11.) Elementary Latin. **Three hours.**

Prerequisite: One unit of high school Latin or Latin 101.

Caesar and a wide range of authors of equal difficulty; vocabulary, inflection, syntax, and their application to English; collateral reading on Roman history and society; training in the understanding of Latin in the Latin order.

Latin 201. (Formerly Latin 12.) Selections from Cicero and Ovid. **Three hours.**

Prerequisite: Two units of high school Latin or Latin 102.

Selections from the works of Cicero, Ovid, Pliny, and others; continued emphasis on mastery of vocabulary and syntax; emphasis on the relation of Latin to English; comparison of the government of the Roman Republic to that of democracies of the present day.

Latin 202. (Formerly Latin 205 and 13.) Selections from Vergil's Aeneid. **Three hours.**

Prerequisite: Two or three units of high school Latin or Latin 201.

Selections from Aeneid of Vergil; study of the Augustan age; study of metrical form and structure of the poem; continued emphasis on Latin inflection and constructions.

UPPER DIVISION COURSES

(Open primarily to Junior, Senior, and Graduate Students)

Latin 301. (Formerly Latin 15.) Selections from Livy. **Three hours.**

Prerequisite: Three units of high school Latin or the equivalent.

Survey of Roman history from the foundation of Rome to the close of the second Punic War; assigned readings from such historians as Mommsen, Heitland, and others; comparative study of Rome and Carthage; critical study of Livy's style.

Latin 302. (Formerly Latin 16.) Selections from Horace. **Three hours.**

Prerequisite: Three units of high school Latin or the equivalent.

Selected odes, epodes, and satires from Horace; study of the Augustan age from both a literary and political point of view; study of Horace's philosophy; various meters employed by Horace.

Latin 303. (Formerly Latin 22.) The Writing of Latin Prose. **Three hours.**

Prerequisite: Latin 301 or the equivalent.

Selections from the text, "Arnold's Latin Prose"; review of syntax, sight reading.

Latin 304. (Formerly Latin 23.) The Latin Dramatists. **Three hours.**

Prerequisite: Latin 301 or the equivalent.

Dramas of Plautus, Terence, and Seneca; two plays of Plautus for intensive study; rapid reading of other representative plays.

Latin 401. (Formerly Latin 41.) Latin Prose of the Silver Age. Three hours.
Prerequisite: Latin 302 or the equivalent.
Letters of Pliny the Younger; selections from the writings of Tacitus.

Latin 402. (Formerly Latin 32.) Satire and Epigram. Three hours.
Selected satires of Juvenal; selected epigrams of Martial; development of satire in Latin literature with assignments from Horace; satire in English; epigram as a literary expression.

Latin 403. (Formerly Latin 31.) Latin Literature of the Early Empire. Three hours.

Prerequisite: Latin 302 or the equivalent.

The Oxford University Press text—selections compiled by A. C. B. Brown. The selections form a connected and contemporaneous discussion of politics, education, literature, philosophy, social types, and town and country life.

Latin 404. (Formerly Latin 30.) Literature of the Late Republic. Three hours.
Prerequisite: Latin 302 or the equivalent.

Selections from the works of Caesar, Sallust, Nepos, and Cicero with emphasis on Ciceronian prose as a basis of much of the thinking and writing since his day; selections from works of poets of this age with emphasis on the works of Catullus and Lucretius.

Latin 405. (Formerly Latin 42.) Roman Private Life. Three hours.

Lectures, discussions, and readings on Roman family, home, marriage, education, clothing, food, amusements, travel, religion, town and country life.

The well-equipped Foreign Language Lab is located in the Cammack Building.



LIBRARY SCIENCE

The program in Library Science is open to students of upper division standing who have demonstrated a good scholastic standing and an evidence of fitness for school library work. A knowledge of the use of the typewriter is desirable. Those students desiring to continue their library education in a graduate library school are encouraged to acquire the ability to read at least one modern foreign language.

Requirements for a Minor in Library Science:

Library Science 301, 311, 321, 331, 401,
and *441.....18 semester hours

Certification Requirements for the Elementary School Librarianship

An elementary teaching certificate based on a baccalaureate or a master's degree will be valid for the elementary school librarianship, provided the following courses in library science have been completed:

School library organization and
administration (Management) 3 semester hours
Books, references, and related materials for
children and young people, which in-
clude the content of the course—
Literature for Children 9 semester hours
Cataloging and classification 3 semester hours
School library practice 3 semester hours
(The requirement in school library prac-
tice may be met by one-third of the stu-
dent teaching having been devoted to
school library practice or by three se-
mester hours in school library practice
being taken in addition to the full amount
required in student teaching.)

Certification Requirements for the High School Librarianship

A high school certificate based upon a baccalaureate or a master's degree will be valid for the high school librarianship, provided the following courses in library science have been completed:

School library organization and
administration (Management) 3 semester hours
Books, references, and related materials for
children and young people, which in-
clude the content of the course—Litera-
ture for Children 9 semester hours
Cataloging and classification 3 semester hours
School library practice 3 semester hours

*If the student chooses to count Library Science 441 as part of the Student Teaching credit, Library Science 463 must be taken in addition to the courses listed.

(The requirement in school library practice may be met by one-third of the student teaching having been devoted to school library practice or by three semester hours in school library practice being taken in addition to the full amount required in student teaching.)

Note: The certificate for the elementary school librarianship may be validated for the high school or twelve-grade librarianship upon the completion of the course Fundamentals of Secondary Education. The certificate for the high school librarianship may be validated for the elementary school or for twelve-grade librarianship upon completion of the courses Fundamentals of Elementary Education and Teaching of Reading.

UPPER DIVISION COURSES

Library Science 301. (Formerly English 360.) Children's Literature and Related Materials. **Three hours.**

Prerequisites: English 101, 102, 211, and 212.

A study of poetry, fiction, folk and fairy stories, biography and other informational books. Criteria for judging each group and methods for using each group both for curriculum needs and recreational reading. Units on story telling, free and inexpensive materials, and aids in the selection of books and non-book materials are included.

Library Science 311. School Library Management. **Three hours.**

This course covers the evaluation and organization of materials at hand; the ordering of new books and preparing them for circulation; classification; simple cataloging; setting up a simple loan system; use of student aid; knowledge of standard equipment and supplies; use, care, and repair of books; and the keeping of statistical records.

Library Science 321. Reference. **Three hours.**

The course is designed to extend the student's knowledge of general and specialized reference works. It is intended to provide information for satisfactory use of library resources. Materials used will be formal reference books, non-fiction books which may have reference value, periodicals and pamphlets. Special emphasis will be placed on the selection of reference books and on the preparation of bibliographies.

Library Science 331. Classification and Cataloging. **Three hours.**

Prerequisite: Library Science 311.

Principles of simplified classification and cataloging will be studied with author, title, and subject cards being made. Attention will be centered on actual classification and cataloging of school library books. Some instruction in the cataloging of audio-visual aids will be given. Skill in typing is necessary.

Library Science 401. Young People's Literature. **Three hours.**

Study and selection of books for the adolescent. Stresses reading interests, levels and needs of young people as well as books and some material supplemental to the school curriculum.

Library Science 441. School Library Practice. **Three hours.**

Prerequisite: Library Science 301, 311, and 321 and others except as may be taken at the same time as this course.

Library practice in the school library designed to give the trainee practical experience in many phases of school library service, including desk work, teaching children the use of reference materials, and assisting in the preparation of books for circulation. Reading guidance, story telling and the organization of unit materials are stressed.

Library Science 463. Instructional Materials for the School Library. **Three hours.**

Evaluation, selection, preparation, use and handling of non-book materials for the school library. Some preparation of free and inexpensive materials will be discussed.

MATHEMATICS

(Recommended curriculum for a major in Mathematics with right of teaching certificate)

First Year

First Semester	Hours	Second Semester	Hours
English 101	3	English 102	3
Mathematics 107	3	Mathematics 108	2
Military Science 101 (Men)		Mathematics 113	3
or		Military Science 102 (Men)	
Elective (Women)	2	or	
Physical Education 115	1	Elective (Women)	2
Social Science 100	3	Physical Education 116	1
Orientation 100	1	Psychology 211	3
Elective	3	Social Science 101	3
		Orientation 101	1
	16		18

Second Year

English 211	3	Education 202	2
Health 201	3	English 212	3
Mathematics 232	3	Mathematics 251	5
Military Science 201 (Men)		Military Science 202 (Men)	
or		or	
Elective (Women)	2	Elective (Women)	2
Physics 131 or 201	5 or 6	Physics 132 or 202	5 or 6
Elective	2		
	18 or 19		17 or 18

Third Year

Education 315	2	Education 316	2
History 246	3	History 247	3
Mathematics 352	3	*Mathematics elective	6
**Restrictive Elective	3	**Restrictive elective	3
Elective	6	Elective	3
	17		17

Fourth Year

Education 384	2	Education 364	4
*Mathematics Elective	6	Education 463	10
Elective	8	Mathematics 467	3
	16		17

Recommended Curriculum for a Second Major in Mathematics

A student with a first major in some other department may take the following courses for a second major in Mathematics: Mathematics 107, 108, 113, 232, 251, 352, and two courses from the following: Mathematics 333, 334, 408, 409, 453, 454, 455, 456.

Recommended Curriculum for a Minor in Mathematics

A student with a major and a minor in other departments may take the following courses for a minor in Mathematics: Mathematics 107, 108, 113, 232, 251, 352.

*A minimum of twelve semester hours of Mathematics electives are to be chosen so that one course will be taken from each of the following groups: Mathematics 408 or 409, 333 or 334, 453 or 454.

One additional course is to be taken in Algebra or Geometry.

**Restrictive Elective will require that the student select six hours from the following: Art 200, Art 390, Art 391, six hours of Foreign Language, History 498, History 499, Music 271, Music 371, Music 372.

MATHEMATICS

(Recommended curriculum for a major in Mathematics without right of teaching certificate)

First Year

First Semester	Hours	Second Semester	Hours
English 101	3	English 102	3
Mathematics 107	3	Mathematics 108	2
Military Science 101 (Men)		Mathematics 113	3
or		Military Science 102 (Men)	
Elective (Women)	2	or	
Physical Education 115	1	Elective (Women)	2
Physical Science 100	3	Physical Education 116	1
Orientation 100	1	Social Science 101	3
Elective	3	Elective	2
		Orientation 101	1
	<hr/> 16		<hr/> 17

Second Year

English 211	3	English 212	3
Mathematics 232	3	Mathematics 251	5
Military Science 201 (Men)		Military Science 202 (Men)	
or		or	
Elective (Women)	2	Elective (Women)	2
Physics 131 or 201	5 or 6	Physics 132 or 202	5 or 6
Elective	3	Elective	2
	<hr/> 16 or 17		<hr/> 17 or 18

Third Year

English Elective	3	History 247	3
History 246	3	*Mathematics Elective	3
Mathematics 352	3	**Restrictive Elective	3
**Restrictive Elective	3	Elective	7
Elective	4		
	<hr/> 16		<hr/> 16

Fourth Year

Health 201	3	*Mathematics Elective	6
*Mathematics Elective	3	Elective	10
Elective	10		
	<hr/> 16		<hr/> 16

*A minimum of fifteen semester hours of Mathematics electives are to be chosen by taking Mathematics 408, 333 or 334, 453, and six hours from Mathematics 215, 409, 333 or 334, 454, 455, and 456.

**Restrictive Elective will require that the student select six hours from the following: Art 200, Art 390, Art 391, six hours of Foreign Language, History 498, History 499, Music 271, Music 371, Music 372.

MATHEMATICS AND ASTRONOMY

LOWER DIVISION COURSES

Mathematics 107. (Formerly Mathematics 10.) College Algebra I. **Three hours.**

Review of high school algebra; exponents and radicals; functions and their graphs; equations and their solutions; systems of linear and quadratic equations; ratio and proportion; progressions.

Mathematics 108. (Formerly Mathematics 11.) College Algebra II. **Two hours.**
Prerequisite: Mathematics 107, or permission of instructor.

Mathematical induction; binomial theorem; theory of equations; permutations; combinations; probability; determinants; partial fractions.

Mathematics 113. (Formerly Mathematics 12.) Trigonometry. **Three hours.**
Prerequisite: Mathematics 107, or permission of instructor.

The trigonometric functions; logarithms; right triangle; radian measure; properties of the trigonometric functions; functions of two angles; the oblique triangle; the inverse trigonometric functions.

Mathematics 201. Understanding Arithmetic. **Three hours.**

This course is for future teachers in the elementary grades. Emphasis is put on meaning rather than upon manipulation as such. The topics covered are number and numerals, sets and numbers, number operations, the fundamental operations, number scales, number structure, fractions, decimals and the real number system.

Mathematics 202. Understanding Elementary Mathematics. **Three hours.**

Prerequisite: Mathematics 201.

This course is a continuation of Mathematics 201 with the introduction of the ideas of modern mathematics, elementary logic, geometry, the number concept, extending the number system, numeration, exponents, measurement, functions and graphs.

Mathematics 215. Statistics. **Three hours.**

Prerequisites: Mathematics 107, 113.

Introductory course in statistics with emphasis on the understanding of concepts presented rather than on techniques used in any one particular area of application. Arithmetic mean; median; mode; standard deviation; normal curve; probability; coefficient of correlation; principle of least squares; chi-square criterion.

Mathematics 232. (Formerly Mathematics 21.) Analytic Geometry. **Three hours.**

Prerequisite: Mathematics 108, 113, or permission of instructor.

Rectangular coordinates; fundamental definitions and theorems; functions and graphs; equation of a locus; the line; polynomials; rational fractional functions; transformation of coordinates; the circle, parabola, ellipse and hyperbola; the trigonometric curves; the exponential and logarithmic curves; parametric equations; polar coordinates; solid analytic geometry.

Mathematics 251. (Formerly Mathematics 22 and 23.) Differential Calculus. **Five hours.**

Prerequisite: Mathematics 232.

Variables; functions; differentiation; applications of the derivative; successive differentiation; parametric and polar equations and roots; differentials; curvature; theorem of mean value and its application; series; expansions of functions; partial differentiation; integration by elementary forms.

UPPER DIVISION COURSES

(Open to Junior, Senior, and Graduate Students)

Mathematics 321. (Formerly Mathematics 30.) General Astronomy. **Three hours.**

Development of astronomy as a science; development of the solar system; astronomical instruments; better known facts of astronomy.

Mathematics 333. Introduction to Non-Euclidean Geometry. **Three hours.**

Prerequisite: Mathematics 251 or consent of the instructor.

Finite geometries; foundations of Euclidean geometry with investigations of the tacit assumptions of Euclid; Hilbert's postulates; Euclid's Fifth Postulate; the discovery of Non-Euclidean geometry; hyperbolic plane geometry; elliptic plane geometry; consistency of the Non-Euclidean geometries.

Mathematics 334. Modern College Geometry. **Three hours.**

Prerequisite: High School Geometry and Mathematics 232.

Logical systems and basic laws of reasoning; special topics of axiomatic geometry; Menelaus's and Ceva's theorems; harmonic elements and cross ratio; projective geometry; basic axioms; duality; Desargues's theorem; perspective figures; coordinate projective geometry; transformation theory.

Mathematics 352. (Formerly Mathematics 32.) Integral Calculus. **Three hours.**

Prerequisite: Mathematics 251.

Integration; constant of integration; definite integral; integration as a process of summation; centroids; fluid pressure; other applications and multiple integrals.

Mathematics 395. Descriptive Geometry. **Three hours.**

For course description see Industrial Arts 395.

Mathematics 401. Fundamentals of Mathematics I. **Three hours.**

Prerequisite: One year of college mathematics.

A course designed to broaden and deepen backgrounds for teaching and to give new insights into basic ideas both old and new. A study of the foundations and topics of algebra emphasizing postulational thinking, and a consideration of modern algebra as it is likely to affect the high school curriculum. Three hours lecture and discussion.

Mathematics 402. Fundamentals of Mathematics II. **Three hours.**

A course designed to enlarge the horizons of the high school teacher and to acquaint him with the concept of geometry as a logical system. Introduction of analytic geometry as well as non-Euclidean geometries and a consideration of recommended changes in high school geometry. Three hours lecture and discussion.

Mathematics 408. Introduction to Modern Algebra I. **Three hours.**

Prerequisite: Mathematics 251 or consent of the instructor.

Some fundamental concepts, sets, mapping, equivalence relations, operations; rings and integral domains, isomorphisms; some properties of the integers; fields with emphasis on construction of the various number systems; groups.

Mathematics 409. Introduction to Modern Algebra II. **Three hours.**

Prerequisite: Mathematics 408.

Polynomials over rings and fields; matrix algebra; vector spaces; systems of linear equations; linear transformations.

Mathematics 453. (Formerly Mathematics 41.) Differential Equations. Three hours.

Prerequisite: Mathematics 352.

Differential equations of the first order; applications; singular solutions; linear equations with constant coefficients; miscellaneous methods for solving equations of higher order than the first; integration in series; total differential equations.

Mathematics 454. (Formerly Mathematics 42.) Advanced Calculus. Three hours.

Prerequisite: Mathematics 352.

Review of elementary calculus with attention focused on the concepts of function and limit; the real number system; continuity; least upper bounds; nested intervals; continuous functions; Cauchy's generalized law of the mean; indeterminate forms; Taylor's series with remainder; functions of several variables; homogeneous functions; implicit functions; partial differentiation; allied topics.

Emphasis is placed throughout on the fundamental principles and methods of analysis.

Mathematics 455. Theoretical Mechanics. Three hours.

Same as Physics 455.

Prerequisite: Mathematics 352 and Physics 202.

Mathematics 456. (Also listed as Physics 456.) Vector Analysis and Its Physical Application. Three hours.

May be taken either in the Mathematics or Physics Department.

Prerequisites: Mathematics 352 and Physics 202.

Mathematics 467. The Teaching of High School Mathematics. Three hours.

Prerequisite: Ten hours of college mathematics or consent of the head of the department.

The history of mathematics; historical background of the mathematics curriculum; new developments in secondary school mathematics; significance for the modern curriculum; recommendations of various groups; some improvement programs for school mathematics; thorough examination of texts and materials; a consideration of some of the newer topics such as sets, bases other than ten, logic, structures; aims and problems of teaching; motivation; techniques of teaching; evaluation; the preparation of the teacher.

GRADUATE DIVISION COURSES

Mathematics 501. Foundations of Elementary School Mathematics. Three hours.

A course designed exclusively for elementary school teachers working toward the Master of Arts in Education degree. However, credit may not be earned by those who already have credit for Mathematics 201 and 202.

Counting and numeration; fundamental concepts of the whole, rational and real number systems; variables and conditions; logic; non-metric geometry; measurement; congruence; parallelism; area and volume.

Mathematics 507. Foundations of Secondary School Mathematics I. Three hours.

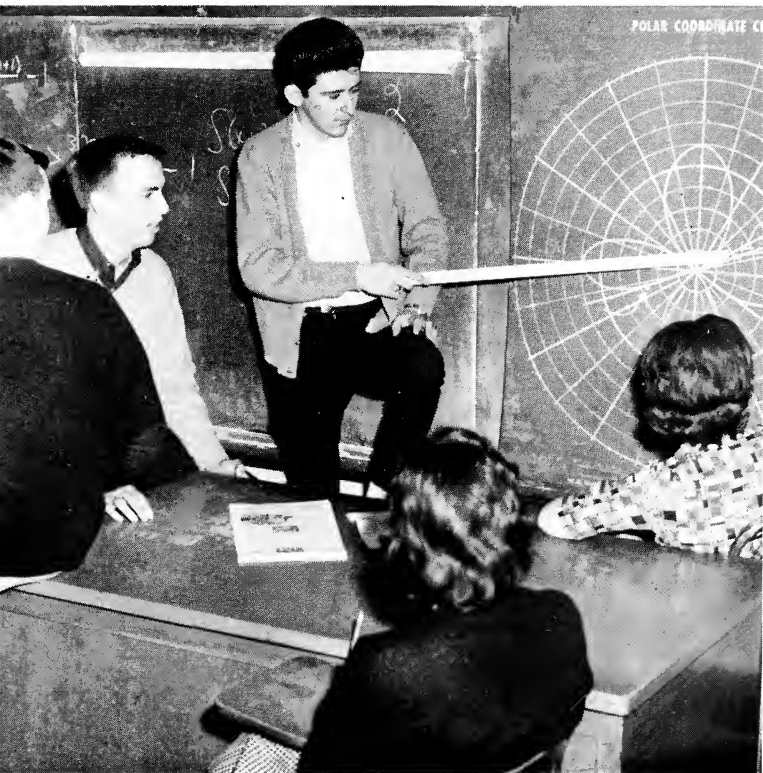
A course designed exclusively for secondary school teachers of mathematics who are working toward the Master of Arts in Education degree.

Topics include: Number and numeration; fundamental number theory; sets, relations, and functions; algebraic systems; consideration of these topics as they are likely to affect the modern high school mathematics program.

Mathematics 508. Foundations of Secondary School Mathematics II. Three hours.

A course designed, in sequence with Mathematics 507, exclusively for secondary school teachers of mathematics who are working toward the Master of Arts in Education degree.

Topics include: History and development of geometry; logic and the nature of proof; foundations of synthetic and analytic Euclidean geometry; discovery of non-Euclidean geometries; vector approaches to the study of geometry; consideration of these topics as they are likely to affect the mathematics program in the modern high school.



MILITARY SCIENCE

The primary mission of the Reserve Officer's Training Corps (ROTC) is to produce junior officers for all components of the United States Army. A vital secondary mission is to impart citizenship training, develop leadership potential and to stimulate and motivate the student for future useful service in behalf of the Nation in whatever profession he chooses. The basic aim is to develop in each student habits of cheerful and appropriate response to constituted authority, loyalty, patriotism, self-discipline, personal bearing and precision.

At the request of this institution, the United States Army established a Reserve Officer's Training Corps (ROTC) Unit at Eastern Kentucky State College in 1936. Initially, the ROTC program offered a commission only in Artillery, without regard to the student's academic background. In 1955, with mutual agreement between the college and the Department of the Army, the program was changed to a General Military Science curriculum which provides instruction in leadership and military fundamentals common to all branches of the Army. Upon graduation a student may now be commissioned in one of fifteen branches consonant with his academic major, his preference, and the requirements of the military service. Those branches are: Armor, Artillery, Infantry, Signal Corps, Engineers, Chemical Corps, Adjutant General's Corps, Finance Corps, Military Police Corps, Ordnance Corps, Quartermaster Corps, Medical Service Corps, Transportation Corps, Army Intelligence, and Army Security.

The Army ROTC program at Eastern Kentucky State College is divided into two courses of two years each. These are the BASIC course normally taken in the freshman and sophomore years, and the ADVANCED course taken in the junior and senior years. Completion of the basic course is a prerequisite for the advanced course. Between the junior and senior years the student attends a six weeks camp at an Army Post where he is given an opportunity to put into practice the military theory learned at Eastern Kentucky State College. Successful completion of the basic and advanced courses and the summer camp is required to be eligible for a commission.

Basic Course—The ROTC basic course of two years duration is compulsory for all able-bodied male students. This course is a college requirement for graduation. Students may be excused from this requirement in rare cases only upon recommendation of the Professor of Military Science after a personal interview, and approval by the President of Eastern Kentucky State College. Once a student is enrolled he must continue in the basic course each semester he is enrolled in college until the basic course has been completed satisfactorily. Students may be excused from formal enrollment in the basic course in the following instances:

- (a) If not a citizen of the United States
- (b) If under 14 years of age; or if cannot qualify for appointment as Second Lieutenant prior to reaching 28 years of age
- (c) If medically unfit to perform General Military Service.

A student who has previous military experience or has completed ROTC training in high school or in another college will, after a conference with the Professor of Military Science, be enrolled in the course for which previous training qualifies him, or be excused from enrollment under certain conditions.

Students transferring to this college after completing part of the basic course elsewhere must continue the course at this college until successful completion. Students transferring to this college who have not been enrolled in the basic course elsewhere will be required to enroll in and complete the basic course if their classification upon enrollment is less than that of a second-semester sophomore. In any event, male transfer students must consult with the Professor of Military Science for determination of enrollment.

Advanced Course—The advanced course is offered to those students who have successfully completed the basic course and who have been recommended by the Professor of Military Science and approved by the President of the College. Such recommendations will be limited to those students who have shown special interest and ability during the basic course, who have stated a desire to continue in the advanced course to qualify for a commission in the Regular Army or the Army Reserve, and who achieve satisfactory score on the prescribed standardized qualification test. A student selected will receive a subsistence allowance of ninety (\$.90) cents per day, or approximately \$535.00 for the two year course. During the summer following the junior year, students in the advanced course will attend a summer camp of six weeks duration. While attending summer camp, members of the advanced course are paid at the rate of \$78.00 per month and are furnished subsistence, housing, uniforms and medical care, and are paid a travel allowance to and from camp. Enrollment in the advanced course will be limited to students who can qualify for appointment as Second Lieutenants prior to reaching 28 years of age. Those who enroll must sign an agreement with the United States Government to complete the advanced course and attend summer camp. Upon successful completion of the advanced course and recommendation by the Professor of Military Science and the President of the College, students may be commissioned as Second Lieutenants in the Army Reserve at the time their degree is conferred. Distinguished Military Students, so designated in their senior year by the Professor of Military Science for outstanding achievement during the preceding three-year period, have an opportunity to apply for Regular Army Commissions. This opportunity is extended only to those students of high leadership potential and who stand academically in the upper one-third of the advanced course.

Credit—The basic course is presented in two classroom hours and one drill period per week for both Military Science I (freshmen) and Military Science II (sophomores), for which two hours credit are awarded for each semester.

The advanced course is presented in four classroom hours and one drill period per week during the fall semester. During the spring semester the advanced course is presented in one classroom hour and one drill period per week. However, advanced students must take a three hour subject matter elective substitute course during the spring semester (see advanced course curriculum for Military Science III and IV). The student receives four hours credit each fall semester and one hour credit each spring semester for a total of five hours credit each year in the advanced program. He receives constructive credit, towards meeting advance course requirements, for the three hour subject matter elective substitute course both years. The subject matter elective substitute course may be taken during either semester and need not be limited to the spring semester.

Since the basic course in Military Science is a requirement for a degree, students should confer with their faculty advisor or the Dean of the College to determine the most advantageous use of ROTC credits.

Medical Examinations—Section 44 of the National Defense Act requires that students must be “physically fit to perform military duty, or will be so upon arrival at military age.” In order that this law may be carried out, each applicant is required to undergo certain medical examinations as a prerequisite for enrollment and continuance in the Reserve Officer’s Training Program.

Applicants for enrollment in the basic course may be examined by any doctor of medicine. Such examinations will be at no expense to the government. Each male student enrolling for the first time at this college should therefore attach to his application for enrollment, or bring with him at time of registration, a report of physical examination performed by a civilian physician.

Examinations for students selected for enrollment in the advanced course will be arranged for by the Professor of Military Science at no cost to the students.

ROTC Extracurricular Activities—

a. Company R, 1st Regiment of the National Society of Pershing Rifles—Membership in the Pershing Rifles Company is open to basic and advanced course students who exhibit outstanding leadership and military ability.

b. The Lieutenant John "Nick" Combs Memorial Company, Association of the United States Army, Eastern Kentucky State College Chapter—Membership in this organization is open to all ROTC students. An outstanding extracurricular social activity presented during the spring semester each year by this organization is the Military Ball. A portion of the fee charged each cadet enrolled in ROTC entitles him to all privileges of the Military Ball.

c. The Eastern Kentucky State College Reserve Officers Training Corps Band, a charter member of the National Reserve Officers Training Corps Band Association—Membership in this organization is open to all ROTC cadets who possess the required abilities. This unit provides music for all ROTC drill activities as well as for selected College functions.

d. Rifle Team—Another extracurricular activity is the rifle team, which is a recognized athletic team at Eastern Kentucky State College.

e. Counterguerrilla Raider Training Unit—This program is a student activity, conducted for the purpose of developing among its members a sense of personal responsibility, military discipline, physical fitness, and the spirit of unselfishness and devotion to duty so essential to a successful military career. Membership is open to ROTC cadets who are second semester freshmen or higher, and to non-ROTC students on campus.

f. Scabbard and Blade—The Scabbard and Blade Company, a member of the National Society of Scabbard and Blade, is open for membership only to senior cadet officers who fully meet high standards of character, leadership, academic achievement, and demonstrated proficiency in Military Science. Nominations for membership are made by the Scabbard and Blade members, subject to approval by the Professor of Military Science and the President of the College. Membership is considered indeed an honor and a cherished reward for outstanding studentship over a three year period.

g. Coed Sponsors—A coed sponsor is selected for each headquarters and company of the brigade. These sponsors wear their own distinctive uniform and hold the rank of their corresponding unit commander. They attend formations and ceremonies with the brigade and are extended the same courtesies as the cadet officers. Selection of sponsors is accomplished by MS IV students during September of each year. The girls selected as sponsors will be the candidates for the honor of Military Ball Queen. The sponsor chosen as Queen of the Military Ball will be given the rank of Cadet Colonel and will serve as the Brigade Sponsor for the next school year.

MILITARY SCIENCE

LOWER DIVISION COURSES (BASIC)

Military Science 101. Introduction to Military Science. **Two hours.**
Organization of the Army and ROTC; individual weapons and marksmanship;
*basic military subjects; leadership laboratory.

Military Science 101a. Basic Course in Military Band. **One-half hour.**

Military Science 102. Basic Military Training. **Two hours.**
Prerequisite: Military Science 101 or equivalent.
U. S. Army and national security; *basic military subjects; leadership laboratory.

Military Science 102a. Basic Course in Military Band. **One-half hour.**
Prerequisite: Military Science 101a.

Military Science 201. Second Year Basic Military Training. **Two hours.**
Prerequisite: Military Science 102 or equivalent.
Map and aerial photograph reading; introduction to basic tactics and techniques; leadership laboratory.

Military Science 201a. Basic Course in Military Band. **One-half hour.**
Prerequisite: Military Science 102a.

Military Science 202. Second Year Basic Military Training. **Two hours.**
Prerequisite: Military Science 201 or equivalent.
American military history; leadership laboratory.

Military Science 202a. Basic Course in Military Band. **One-half hour.**
Prerequisite: Military Science 201a.



Military science provides cadets with expert instruction and leadership training.

UPPER DIVISION COURSES (ADVANCED)

Military Science 301. First Year Advanced Military Training. **Four hours.**

Prerequisite: Basic course or equivalent.

Leadership; military teaching principles; small unit tactics and communications; leadership laboratory.

Military Science 302. First Year Advanced Military Training. **One hour.**

Prerequisite: Military Science 301.

Branches of the Army; **precamp orientation; leadership laboratory; ***academic subject elective.

Military Science 401. Second Year Advanced Military Training. **Four hours.**

Prerequisite: Military Science 302.

Operations; logistics; army administration; military law; leadership laboratory.

Military Science 402. Second Year Advanced Military Training. **One hour.**

Prerequisite: Military Science 401.

The role of the United States in world affairs; service orientation; leadership laboratory; ****academic subjects.

*To include military first aid; care of mass casualties; chemical-biological-radiological warfare; drill and ceremonies.

**This 5-hour course may be introduced as substitute instruction in leadership laboratory.

***Elective academic subjects must be chosen from the following general academic areas during the junior and senior years; must be approved in advance by the Professor of Military Science:

1. Effective Communication: English 301, 302, 318, 321, 322, 325, 331, 421, 423, 424, 425 and 441.

Language: Any three hour graduate course in English or any upper division language course.

2. Any three hour upper or graduate division course in Chemistry, Physics, Biology, Science, Geography and Mathematics.

3. General Psychology: Psychology 308.

4. Political Development and Political Institutions: Political Science 410, 455, and 456.

History: Any upper or graduate division three hour course.

In the event that a particular subject is required in the student's normal academic curriculum during freshman and sophomore years, electives must be selected either from another general area or from an upper division subject in the same area. However, if the subject selected was not required in the student's academic curriculum during the freshman and sophomore years, complete freedom of selection from within the four above stated academic areas is permissible. The Professor Military Science will evaluate and approve the elective subjects selected. Consideration will be given to the value of the subject in furthering the professional qualifications of the student as a prospective commissioned officer in the United States Army.

****Academic subject elective courses are from the same areas and courses as for Military Science III.

MUSIC

Background. Before selecting the field of music for special or major concentration, the student will consult with the head of the department. Because the training of a music teacher requires a better musical background, together with more knowledge and skill, than may be acquired during the normal four years of college, students who select music as a major should have had some pre-college music training and must have certain natural aptitudes. It is highly desirable that a student be a fairly proficient pianist before coming to college. However, proficiency on some other instrument may have an equivalent value.

Ensemble Participation. The requirements for ensemble participation are the same for all areas and majors in music, both professional and non-professional degrees. The student should, during the first semester in college, make plans with the head of the department for the proper satisfaction of this requirement.

Activities. Students who are taking an area or a major in music will be expected to participate in the activities and organizations of the Music Department, including the Music Club and the student chapter of MENC, and to accept such assignments as are given them in these connections.

Recital Attendance. Attendance at all of the college concerts, and at a certain specified number of recitals, is required. Unsatisfactory attendance will affect grades in applied music.

Public Performance. Before accepting an engagement for public performance, the student of applied music must secure the approval of his teacher in that particular field.

Applied Music Requirements.

Major Applied—Each Music area student is required to study his major instrument for seven semesters.

Secondary Applied — Music 130-131, String Class; Music 320, Class Voice (not required of voice majors); Music 350-351, Wind Classes; Piano requirements as outlined below.

Before graduation, all music area students must have four credits in public performance, on the following basis: one credit for each solo performance; one-half credit for each ensemble performance or each accompaniment on piano of major length and difficulty. They must also participate in small ensembles as they are qualified.

No student will be recommended for student teaching in any area of Vocal Music without piano preparations outlined below, or without the ability to exemplify the abilities of his own teaching.

Secondary Piano. Since Piano is the basic instrument in the teaching of music in the public schools, the student must fulfill certain minimum Piano requirements before graduation. Every music area and music major student should be able to play simple piano accompaniments at sight; to play the easier choral 4-part folk songs and hymns; to harmonize at sight tunes from elementary music series books; to show reasonable competency in transposition. It is important that he perform with accuracy and assurance, and up to tempo. For the voice major, the requirement includes completion of Music 110 and 111, a continuation of 112 or 112a until he can play piano accompaniments of moderate difficulty and can read piano reductions of choral music of moderate difficulty. For the instrumental major, the piano requirement will be met by completing with a grade of B both Music 110 and 111.



The Messiah presentation at Christmastime is one of the highlights of the year at Eastern.

MUSIC AREA

(Recommended curriculum in the area of Music with right of teaching certificate)

First Year

First Semester	¹ Hours	Second Semester	¹ Hours
English 101	3	English 102	3
Military Science 101 (Men)		Military Science 102 (Men)	
or		or	
Elective (Women)	2	Elective (Women)	2
Applied Music—major instrument	1	Applied Music—major instrument	1
² Music 110	1	² Music 111	1
Music 130	1	Music 131	1
Music 180	2	Music 182	2
Music 181	2	Music 192	2
Music 191	2	Physical Education 116	1
Physical Education 115	1	Science 110	3
Science 109	3	Orientation 101	1
Orientation 100	1		
	19		17

Second Year

English 211	3	Education 202	2
Military Science 201 (Men)		English 212	3
or		Military Science 202 (Men)	
Elective (Women)	2	or	
Applied Music—major instrument	1	Elective (Women)	2
³ Piano, or Elective	1	Applied Music—	
Music 281	2	major instrument	1
Music 291	2	³ Piano or Elective	1
Science Elective	3	Music 272	3
Social Science 100	3	Music 282	2
		Music 292	2
		Psychology 211	3
	17		19

Third Year

Education 315	2	Education 316	2
History 246	3	History 247	3
Applied Music—major instrument	1	Applied Music—major instrument	1
⁴ Music 320	2	Music 351	2
Music 350	2	Music 364	2
Music 363	2	Music 366	2
⁵ Music 367	2	Music 372	3
Music 371	3	⁵ Music 384	2
	17		17

Fourth Year

Health 201	3	Education 364	6
Applied Music—major instrument	1	Education 463	10
Music 380	2		
Science Elective	3		
Social Science Elective	3		
Elective	6		
	18		16

¹ In addition to the courses outlined, music students will be taking from $\frac{1}{2}$ to 2 credits in Band, Orchestra, and Choir each semester.

² Piano requirements for instrumental major will be met by completion of Music 110 and 111, each with a grade of "B."

³ If instrumental majors have completed their piano requirements, they may take an elective here. Vocal majors should take Music 112a to complete their requirements.

⁴ Music 320, Class Voice, not required of Voice majors.

⁵ Students whose major instrument is piano, who will not be teachers of vocal or instrumental ensembles, and who elect the piano field for their ensemble participation, may substitute Music 361, Teaching Repertory, and Music 463, Teaching Piano in Classes, for Music 367, Instrumental Techniques, and Music 384, Arranging.

Summary of Music Recommendations for Area with Right of Certification

Hours	Hours
Music 180 Elements of Music..... 2	¹ Music 364 High School Music..... 2
Music 181-2 Harmony I and II..... 4	Music 366 Conducting 2
Music 281-2 Harmony III and IV 4	Music 367 Inst. Techniques 2
Music 191-2 S. S. & E. T. I and II.... 4	² Music 110-111 Piano 2
Music 291-2 S. S. & E. T. III & IV.. 4	Music 320 Class Voice 2
Music 380 Form and Analysis..... 2	Music—Applied Major 7
Music 384 Arranging 2	Music 130-1 String Class 2
Music 272 Basic Music Literature.. 3	Music 350-1 Wind Class..... 4
Music 371-2 Mus. Hist. I and II.... 6	³ Ensembles 5-9
Music 363 Grade Meth. & Mat..... 2	
	61-65

Summary of Music Recommendations for Area Without Certification

Music 180 Elements of Music..... 2	Music 381-2 Counterpoint 4
Music 181-2 Harmony I and II..... 4	Music 272 Basic Music Literature 3
Music 281-2 Harmony III and IV.. 4	Music 371-2 Mus. Hist. I and II.... 6
Music 191-2 S. S. & E. T. I and II.... 4	Music 361 or 362 Teach. Rep..... 1
Music 291-2 S. S. & E. T. III and IV 4	Music Applied, with Recital.....16
Music 380 Form and Analysis..... 2	³ Ensembles 6-9
	56-59

Major in Music

The following courses are recommended for a Major in Music with right of teaching certificate:

Vocal	Instrumental
Music 180 Elements of Music..... 2	Music 180 Elements of Music..... 2
Music 181-2 Harmony I and II..... 4	Music 181-2 Harmony I and II..... 4
Music 191-2 S. S. & E. T. I and II.. 4	Music 191-2 S. S. & E. T. I and II.. 4
Music 363 Grade Methods 2	Music 367 Inst. Techniques 2
Music 366 Conducting 2	⁴ Music 366 Conducting 2
Music 272 Basic Music Literature.. 3	Music 272 Basic Music Literature.. 3
Music 371-2 Mus. Hist. I and II.... 6	Music 371-2 Mus. Hist. I and II.... 6
Music 110-111 Piano 2	Music 110-111 Piano 2
Applied Elective 2	Applied Elective 2
Music 130-1 String Class 2	Music 350-1 Wind Class 4
Music 320 Voice Class 2	
31	31

¹ Students whose principal interest is in piano and who select the piano field of ensemble participation may substitute Music 361 (Teaching Repertory) and 463 (Teaching Piano in Classes) for Music 384 (Arranging) and Music 367 (Instrumental Techniques).

² Four hours of Piano for Voice major. To fulfill requirements, Piano beyond the indicated hours may be necessary.

³ See optional fields of ensemble participation on page 174.

⁴ Students whose principal musical interest is in piano, who will not teach vocal or instrumental ensembles and who elect the piano field for their ensemble participation, may substitute Music 361 (Teaching Repertory) for Music 366 (Conducting) unless already substituted as in footnote #1.

Recommended Curriculum for a Second Major in Music Without Right of Teaching Certificate

Music 180 Elements of Music.....	2	Music 272 Basic Music Literature..	3
Music 181-2 Harmony I and II.....	4	Music 371-2 Mus. Hist. I and II....	6
Music 191-2 S. S. & E. T. I and II..	4	Elective	5

24

Curriculum for a Minor in Music Without Right of Teaching Certificate

Courses for the minor must be selected in consultation with the Head of the Music Department.

ENSEMBLE PARTICIPATION

These requirements are the same for all music major and music area students. Every student shall, upon consultation with his faculty advisor or with the head of the department, select one of the following fields of ensemble participation. Such participation must begin with the first semester of the freshman year. In order to discharge the requirements for ensemble participation, only consecutive semesters shall be considered as constituting a year. This statement represents the minimum requirements for music majors; more extensive participation is advised for the sake of the musical and professional growth of the individual.

Voice		Piano	
4 years Choir		2 years Choir	
1 year Piano 112a* required		2 years Accompanying	
in addition to Music 110 and 111		1 year Elective	
5 years Total		5 years Total	
Orchestra		Band	
4 years Orchestra		4 years Band	
1 year Choir/Band/Ensembles		1 year Choir/Orchestra/Ensembles	
5 years Total		5 years Total	

* Or Two hours Music 112, if minimum qualification can be met.

MUSIC FEES

Class Instruction, per semester

Music 130, 131, 350, 351—Wind and String Instruments	\$ 5.00
Music 110, 111, 320—Class Piano and Class Voice	12.00

Individual Instruction, per semester

All instruments and voice.....Two lessons per week	36.00
One lesson per week	22.50
Practice room, Piano, Voice, one hour daily per semester..	5.00
Practice room, String and Wind Instruments, one hour daily per semester	2.50
Use of college-owned instrument, string or wind, one semester	3.00

Note: When content courses are taught on an individual basis, the fees in these courses will be the same as the fees in applied music.

APPLIED MUSIC

Except as noted, instruction is given in individual lessons of two one-half hour periods each week. Piano or voice classes are two one-hour periods each week; string class, three periods; wind classes, three periods.

LOWER DIVISION COURSES

Music 11. Piano. No credit.

Introductory course in piano for students who do not meet the minimum requirements for Music 112.

Music 12. Voice. No credit.

Introductory course, preparatory to Music 122.

Music 13a. Violin. No credit.

An introductory course, preparatory to Music 132.

Music 13b. Viola. No credit.

An introductory course, preparatory to Music 134.

Music 13c. Violoncello. No credit.

An introductory course, preparatory to Music 136.

Music 15. Wind Instruments. No credit.

An introductory course for those who wish to learn to play any of the woodwind or brass instruments.

Music 110. Class Piano. One hour.

Introductory course for vocal and instrumental students, designed, with Music 111, to meet the piano requirements as outlined in the catalog for Secondary Piano.

Music 111. Class Piano. One hour.

Prerequisite: A grade of "B" in Music 110.

Continuation of Music 110.

Music 112. Piano. One or two hours.

Two lessons per week, with approximately six hours of practice and study per week.

Music 112a. Piano. One or two hours.

Prerequisite: A grade of "B" in Music 111, or the equivalent.

A course in private instruction continuing the aims and purposes of Music 110 and 111.

Music 122. Voice. One or two hours.

Music 130. String Class. One hour.

To provide for the beginner who wishes to learn to play a string instrument an opportunity to study under the stimulus of class instruction; to start the beginner on the road toward sufficient playing and technical ability to teach strings in class and to train the string section of a school orchestra.

The first semester is devoted to the study of one particular instrument. Three periods each week.

Music 131. String Class. One hour.

A continuation of Music 130. During this semester the student may devote some attention to string instruments other than his principal class instrument. Three periods each week.

Music 132. Violin. One or two hours.

Music 134. Viola. One or two hours.

Music 136. Violoncello. One or two hours.

Music 138. String Bass. One or two hours.

Music 142. Organ. One or two hours.

Prerequisite: Four years of piano study.

Music 152. Wind Instrument. One or two hours.

UPPER DIVISION COURSES

(Open to Junior, Senior, and Graduate Students)

Music 312. Piano. One or two hours.

Music 320. Class Voice. Two hours.

This is a course in basic vocal techniques designed for students whose applied major is not voice. Sight reading ability and music aptitude are prerequisites.

Music 322. Voice. One or two hours.

Music 332. Violin. One or two hours.

Music 334. Viola. One or two hours.

Music 336. Violoncello. One or two hours.

Music 338. String Bass. One or two hours.

Music 342. Organ. One or two hours.

Music 350. (Formerly Music 250.) Woodwind Instrument Class I. Two hours.

A class in woodwind instruments, with some attention to percussion. Practical instruction in methods of tone production, tuning, fingering, and care of the instruments; group instruction, involving handling and playing of the woodwind instruments of the band and orchestra; the examination of materials suitable for beginning bands. This course will give the student some practical experience in elementary conducting. Three periods each week.

Music 351. (Formerly Music 251.) Brass Wind Instrument Class II. Two hours.

A class in brass instruments, with some attention to percussion, similar to Music 350. Three periods each week.

Music 352. Wind Instrument. One or two hours.

MUSIC

LOWER DIVISION COURSES

Music 125. Choir. One hour.

The College Choir is open to all college students who qualify. The organization aims to develop and perpetuate a high standard of choral-ensemble singing. Each year the Choir makes a number of appearances on the campus and before high schools and other organizations. It also assists in the presentation of the Messiah, Baccalaureate, and other programs. Membership in the Choir will include attendance at rehearsals for these programs. Three or more rehearsals per week.

Music 127. Opera Workshop. One-half hour.

Admission by audition. Participation in and presentation of opera scenes; singing, stage movement, dramatic interpretation. Observation of others when not performing. Pianists may enroll as accompanists provided they perform in one vocal ensemble.

Music 180. Elements of Music. Two hours.

Staff notation, notes, rests, clefs, scales (various modes), keys, meter, chromatic tones, intervals, chords, cadences, abbreviations, and other symbols; music terms; elements of form; solmization; music writing and simple dictation.

Music 181. Harmony I. Two hours.

Four voice part writing based on primary triads; the dominant seventh; melodic passing tones and embellishments; keyboard work consisting of scales, triads, etc.

²Music 182. Harmony II. Two hours.

Prerequisite: Music 181.

Continuation of first term harmony; use of secondary triads and inversions in major and minor keys; harmonizations with figured bass and given soprano; original composition in simple forms; keyboard work with cadences and elementary harmonization; secondary chords of the seventh; modulation to nearly related keys; continuation of keyboard and original work.

²Music 191. Sight Singing and Ear Training I. Two hours.

Sight singing of melodic exercises in major and minor keys and in various rhythms; tone group, and verbal and tonal dictation; interval drill.

²Music 192. Sight Singing and Ear Training II. Two hours.

Prerequisite: Music 191.

Music 205. Chamber Music. One-half hour.

The study and performance of standard chamber music literature, quartets, quintets, etc. Open to pianists, vocalists, and string and wind instrument players upon the recommendation of the instructor. Course may be repeated as many times as necessary or desirable.

Music 225. (Formerly Music 221.) Choir. One hour.

¹Music 235. (Formerly Music 220.) Orchestra. One-half hour.

¹Music 255. (Formerly Music 210.) Band. One-half hour.

Music 260. Public School Music. Three hours.

Such knowledge of music theory and of the principles of notation as is needed by the grade teacher; the aims of music in the grades; the child voice; tone quality; the unmusical singer; rhythmic development; use of the pitch pipe; rote songs; use of the phonograph in teaching songs, use of classroom rhythm and melody instruments, together with increasing ability in music reading on the part of the student.

Music 261. Public School Music II. Three hours.

Prerequisite: Music 260.

A course designed to give more detailed and extensive study of music teaching procedures in the elementary grades. To give the teachers of these grades experience in compiling and using materials which may be taken directly into the classroom. The following aspects of music teaching will be emphasized: the use of rhythmic instruments and devices to encourage bodily expression and to create pleasurable music experience; the perfection of reading skills; examination of new music series and their accompanying records; and the development of music programs appropriate for each grade level.

Music 271. The Enjoyment of Music. Three hours.

Not open to music majors.

A course designed for the non-musician to increase his enjoyment and understanding of music through guided listening. A large and representative library of recorded music is available, with ample facilities for student listening. Class preparation for this course will include attendance at the regular college concerts, and certain other musical events on the campus. This course is open to all students who are not music majors.

Music 272. (Formerly Music 271.) Basic Music Literature. Three hours.

For music majors. Others only with special permission.

An introduction to the standard concert repertoire, through intensive, guided listening. Illustrated by representative works of major composers.

²Music 281. Harmony III. Two hours.

Prerequisite: Music 182.

Extraneous modulation; secondary chords of the seventh; analysis of sonatas of Haydn and Mozart; study of melodic and harmonic development; chords of the Neapolitan sixth; augmented sixth.

Music 282. Harmony IV. Two hours.

Modulation through use of the diminished seventh chord; analysis and memorizing a Bach choral; writing a sonata-allegro form.

Music 291. Sight Singing and Ear Training III. Two hours.

Prerequisite: Music 192.

Music 292. Sight Singing and Ear Training IV. Two hours.

Prerequisite: Music 291.

UPPER DIVISION COURSES

(Open to Junior, Senior, and Graduate Students)

Music 325. (Formerly Music 321.) Choir. One hour.**Music 327. Opera Workshop. One-half hour.****Music 361. Teaching Repertory, Piano. One hour.**

This course is designed to widen the student's acquaintance with piano literature, to give him a repertoire of teaching material, a knowledge of teaching procedures. A note book containing notes on methods of attacking technical problems, lists of teaching materials for various grades, etc., is required.

Music 362. Teaching Repertory, Voice. One hour.

This course is designed to widen the student's acquaintance with voice literature, to give him a repertoire of teaching material, and a knowledge of teaching procedures. A note book containing notes on methods of attacking technical problems, lists of teaching materials for various grades, etc., is required.

Music 363. Grade Methods and Materials. Two hours.

Prerequisite: Music 260 or 180 or the equivalent.

A course in the teaching and supervision of music in the grades, designed primarily for music majors.

Music 364. High School Music. Two hours.

A course in the organization, presentation, and administration of high school music, including the junior high school, designed primarily for music majors.

Music 366. Conducting. Two hours.

A course in the fundamentals of conducting, with attention to their application to the high school band, orchestra and chorus.

Music 367. Instrumental Techniques. Two hours.

A course in the organization and administration of a beginning instrumental program in the elementary school, marching and concert band in the junior and senior high schools; ensembles, rehearsal procedures; programming; and instrument repairs.

Music 371. Music History I. Three hours.

Archaic and medieval music; organization of church music, music of the Renaissance and Reformation; music of Elizabethan England; early classical composers; Bach, Handel, Haydn, and Mozart, the early Beethoven.

Music 372. Music History II. Three hours.

Romanticism in music; the Romantic opera; development of piano music; the art song; late Romantic and national trends in music; modern music; Impressionism; atonality; Beethoven; Schubert; Schumann; Chopin; Liszt; Wagner; Debussy; Ravel; Hindemith; Stravinsky; Jazz influence in American music, contemporary music.

²Music 380. Form and Analysis. **Two hours.**

²Music 381. Counterpoint I. **Two hours.**

²Music 382. Counterpoint II. **Two hours.**

²Music 383. Orchestration. **Two hours.**

Music 384. Arranging. **Two hours.**

A beginning course in instrumentation and arranging for band and orchestra.

Music 425. (Formerly Music 421.) Choir. **One hour.**

²Music 461. Band and Orchestra Procedures and Materials I. **Two hours.**

Analysis and organization of various courses of study for instrumental groups of varying abilities; rehearsal routines; training student sectional leaders; duties which may be assumed by students; adaptation of practice quarters to fit acoustical needs; program mechanics for public appearances; publicizing and interpreting music activities; care of equipment; program and teaching materials; consideration of the modified Prescott system and similar courses of study.

²Music 462. Band and Orchestra Procedures and Materials II. **Two hours.**
Continuation of Music 461.

Music 463. Teaching Piano in Classes. **Two hours.**

Prerequisite: Three years of piano study in college or the equivalent.

²Music 481. Canon and Fugue I. **Two hours.**

²Music 482. Canon and Fugue II. **Two hours.**

²Music 483. Composition. **Two hours.**

GRADUATE DIVISION COURSES

³Music 512. Piano. **One to four hours.**

Prerequisite: Music 312. Four years or equivalent, as demonstrated by the student's proficiency on the instrument.

This is a continuation on the graduate level, requiring more work of better quality than is required on the undergraduate level.

³Music 513. Pedagogy of Piano. **Two hours.**

Prerequisite: Same as for Music 512.

This course is designed to enlarge the teaching repertoire of the graduate piano student through detailed study of modern teaching methods and techniques.

³Music 522. Voice. **One to four hours.**

Prerequisite: Music 322.

This course is designed to enlarge the teaching repertoire of the graduate voice student. Emphasis will be placed on cantatas, oratorios, and operas. The student will be given an opportunity to teach voice under supervision.

²Music 523. Pedagogy of Voice. **Two hours.**

This course is designed to give the student a thorough background in repertoire for voice, and a knowledge and application of teaching procedures. A notebook and term paper are required.

²Music 530. Problems and Research in the Class Teaching of Strings. **Three hours.**

A graduate course in the problems and methods of the teaching of strings in classes, with consideration of the homogeneous and the heterogeneous class, research in available materials, with attention to their actual success in class teaching.

²**Music 531.** Curriculum Practices and Trends in the Teaching of Stringed Instruments. **Three hours.**

A course designed for the graduate music student whose major applied interest is in strings, with attention to the development of teaching procedures for the various instruments particularly as their problems become more divergent.

³**Music 532.** Violin. **One to four hours.**

Prerequisite: Music 332. Four years or equivalent, as demonstrated by the student's proficiency on the instrument.

²**Music 533.** Special Problems in String Teaching. **One to three hours.**

³**Music 536.** Violoncello. **One to four hours.**

³**Music 542.** Organ. **One to four hours.**

³**Music 552.** Wind Instrument. **One to four hours.**

Continuation of Music 352 on the graduate level, requiring more work than was required on the undergraduate level.

²**Music 553.** Pedagogy of Wind Instruments. **Two hours.**

Music 565. Music in Junior High School. **Three hours.**

A consideration of the purposes of the junior high school general music class, of the needs and interests of the pupils, and of methods and materials instruction.

Music 571. Music History Survey to the Romantic Period. **Three to four hours.**

A detailed and intensive study of music history and of music literature to the end of the classical period.

Music 572. Music History Survey from Romantic Period to the Present. **Three to four hours.**

A continuation of Music 571.

²**Music 581.** Acoustics, Construction and Development of Musical Instruments. **Three hours.**

Prerequisite: Music 350-351 or the equivalent.

A graduate research course, investigating the historical development, the construction, the acoustical properties of wind instruments. The student is expected to complete three research projects each semester.

Music 585. Choral Arranging. **Three hours.**

An introductory course in arranging for typical junior and senior high school vocal ensembles.

¹ Consecutive semesters in this course will be required for credit, any two consecutive semesters will earn one hour of credit. Admission to membership upon approval of instructor.

² During semesters when Music 181, 182, 281, 282, 381, 382, 383, 481, 482, 483, 191, 192, 291, 292, 461, 462, 533, 553, 581 are not offered as regular classes, they may be taken as individual instruction, under the same arrangements as instruction in Applied Music.

³ Applied music will be accepted in satisfaction of graduate non-professional subject matter and electives, upon the recommendation of advisor and Dean.

ORIENTATION

Orientation 100. (Formerly Sociology 100.) College Orientation. One hour.

The college and its functions; living in college; the development of efficient study habits; personal and family responsibilities; social relationships; vocational guidance.

Orientation 101. (Formerly Sociology 101.) College Orientation. One hour.

A continuation of Orientation 100.

"We want to seize the value and perspective of passing things, and so to pull ourselves up out of the maelstrom of daily circumstance. We want to know that the little things are little, and the big things big, before it is too late: we want to see things now as they will seem forever—in the light of eternity."—Will Durant



PHYSICAL EDUCATION

(Recommended Curriculum for a major in the area of Health,
Physical Education and Recreation with right of teaching certificate)

First Year

First Semester	Hours	Second Semester	Hours
English 101	3	English 102	3
Military Science 101 (Men)		Military Science 102 (Men)	
or		or	
Elective (Women)	2	Elective (Women)	2
Physical Education 115	1	Physical Education 116	1
Physical Education 125	2	Physical Education 190	3
Physical Education 150 (Men)		Science 109 or 110	3
or		Social Science 101	3
Physical Education 151 (Women) ..	2	Elective	3
Science 111	3	Orientation 101	1
Social Science 100	3		
Orientation 100	1		
	17		19

Second Year

Biology 225	3	Biology 219	3
English 211	3	Education 202	2
Health 202	2	English 212	3
History 246	3	Health 201	3
Military Science 201 (Men)		History 247	3
or		Military Science 202 (Men)	
Elective (Women)	2	or	
Physical Education 220	2	Elective (Women)	2
*Restricted Elective	3	Psychology 211	3
	18		19

Third Year

Education 315	2	Education 316	2
Health 315	2	Education 384	2
Health 364	2	Health 366	3
Physical Education 300	2	Physical Education 320	2
Physical Education 325	2	Physical Education 352 (Women) ..	2
Physical Education 345 (Women) ..	2	Physical Education 368 (Men)	1
Physical Education 361 (Women) ..	2	Elective	6
Physical Education 367 (Men)	1		
Elective in Coaching (Men)	4		
*Restrictive Elective	3		
	18 (Men) or 17 (Women)		16 or 17

Fourth Year

Health 410	3	Education 364	4
Physical Education 400	3	Education 463	10
Physical Education 401	3	Physical Education 366	2
Physical Education 468	2		
Physical Education 475	3		
Elective in Coaching (Men)	2		
Elective	2 or 4		
	18		16

*Restrictive Elective will require that the student select six hours from the following: Art 200, Art 390, Art 391, six hours of Foreign Language, History 498, History 499, Music 271, Music 371, Music 372.

PHYSICAL EDUCATION

(Recommended Curriculum for a major in Physical Education
with right of teaching certificate)

First Year

First Semester	Hours	Second Semester	Hours
English 101	3	English 102	3
Military Science 101 (Men)		Military Science 102 (Men)	
or		or	
Elective (Women)	2	Elective (Women)	2
Physical Education 115	1	Physical Education 116	1
Physical Education 125	2	Physical Education 190	3
Science 111	3	Science 109 or 110	3
Social Science 100	3	Social Science 101	3
Orientation 100	1	Elective	3
Elective	3	Orientation 101	1
	18		19

Second Year

Biology 225	3	Biology 219	3
English 211	3	Education 202	2
History 246	3	English 212	3
Military Science 201 (Men)		Health 201	3
or		History 247	3
Elective (Women)	2	Military Science 202 (Men)	
Physical Education 220	2	or	
*Restrictive Elective	3	Elective (Women)	2
Elective	2	Psychology 211	3
	18		19

Third Year

Education 315	2	Education 316	2
Physical Education 300	2	Education 384	2
Physical Education 320 or 325	2	Physical Education 352 (Women)	2
Physical Education 345 (Women)	2	Physical Education 368 (Men)	1
Physical Education 361 (Women)	2	Elective	10 or 11
Physical Education 367 (Men)	1		
Elective in Coaching (Men)	2		
*Restrictive Elective	3		
Elective	5 or 6		
	18		16

Fourth Year

Physical Education 468	2	Education 364	4
Physical Education 475	3	Education 463	10
Elective in Coaching (Men)	2	Physical Education 366	2
Elective	10 or 12		
	17		16

*Restrictive Elective will require that the student select six hours from the following: Art 200, Art 390, Art 391, six hours of Foreign Language, History 498, History 499, Music 271, Music 371, Music 372.

Recommended Curriculum for a second major in Physical Education

Physical Education 125, 190, 220, 300, 325, 366, 468, and 475.

Additional Physical Education courses for men: 367, 368, four hours elective to be taken from 261, 360, 362, or 420.

Additional Physical Education courses for women: 345, 352, and 361.

Recommended Curriculum for a minor in Physical Education

Students may minor in Physical Education by taking the following courses: Physical Education 125, 190, 220, 300, 366, and 468.

Additional Physical Education courses for men: 367, 368, four hours elective to be taken from 261, 360, 362, or 420.

Additional Physical Education courses for women: five elective hours in Physical Education.

LOWER DIVISION COURSES

Physical Education 115. Fundamental Physical Education Activities. One hour.

This course is designed to meet the needs of the average college student. The students will be assigned to required physical education class sections in accordance with their abilities and needs. Individuals who are inferior in physical fitness will be assigned to sections with special emphasis on fitness and conditioning. A text will be required and grades will be determined by examination over rules and skills in the various activities.

This required physical education program is designed to fulfill the following objectives:

1. To provide the college student with a program of regulated and supervised physical activity.
2. To develop recreational skills which will serve as leisure time pursuits today and in the future.
3. To develop an intelligent attitude toward the need for and benefits of well-regulated physical activity.

The following activities will be provided in Physical Education 115 (Men):

Beginning swimming

Fundamentals of golf, handball, volleyball, tennis, badminton, touch football, and softball

Basic physical conditioning activities

The following activities will be provided in Physical Education 115 (Women):

Beginning swimming

Basic folk rhythms and modern dance

Conditioning activities

Fundamental skills of movement

Fundamentals of field hockey, volleyball, aerial tennis, badminton, and varied recreational games

Physical Education 116. Fundamental Physical Education Activities. One hour.

This course is a continuation of Physical Education 115.

The following activities will be provided in Physical Education 116 (Men):

Intermediate swimming

Basic gymnastics and conditioning activities

Skill techniques in golf, handball, volleyball, tennis, badminton, and softball

The following activities will be provided in Physical Education 116 (Women):

Intermediate swimming
Folk rhythms and modern dance
Conditioning activities
Fundamental skills of movement
Fundamentals of basketball, tennis, softball and varied recreational games

Physical Education 125. (Formerly Physical Education 125 and 126.) Introduction to Physical Education. **Two hours.**

The place of physical education in our general education program. This course will also present the history and principles of physical education.

Physical Education 150. (Formerly Physical Education 350.) Scouting and Clubcraft. (Men) **Two hours.**

History and principles of scouting; practical scoutcraft and clubcraft. The scoutmaster's certificate is awarded to those completing the course.

Physical Education 151. (Formerly Physical Education 351.) Camping and Clubcraft. (Women) **Two hours.**

Theory and basis of camping, organization in camping, counselor training, skills for camping, leadership in camping activities. A cook-out and an overnight are required for completion of the course. Two hours lecture and laboratory to be arranged.

Physical Education 190. (Formerly Physical Education 210 and 211.) Skills in Physical Education Activities. **Three hours.**

Students will study and practice the various skills required for participation in a variety of individual and team sports.

Physical Education 220. (Formerly Physical Education 20.) Physical Education in the Elementary School. **Two hours.**

Theory and practice in the conduct of physical education for children in the elementary grades. **Four laboratory hours.**

Physical Education 261. (Formerly Physical Education 24 and 265.) Coaching Baseball. **Two hours.**

Theory and practice in coaching the fundamentals of baseball; team offense and defense.

UPPER DIVISION COURSES

(Open to Junior, Senior, and Graduate Students)

Physical Education 300. (Formerly Physical Education 30.) Folk and National Dancing. **Two hours.**

Traditional and social dances of the United States and other countries.

Physical Education 320. Kinesiology. **Two hours.**

Prerequisite: Biology 225.

Fundamentals of body mechanics; movements of the human body.

Physical Education 325. (Formerly Physical Education 32.) Physiology of Activity. **Two hours.**

Effects of physical education activities on the various systems of the human body.

Physical Education 340. Advanced Swimming and Water Safety. **Two hours.**

Prerequisite: To have passed the Red Cross Beginners and Intermediate swimming tests or their equivalent. A screening test will be given those who have not had the opportunity to take Red Cross tests to determine if they are eligible to take the class.

Emphasis on advanced skills in swimming and water safety in which the Red Cross Instructors Course in Water Safety will be taught.

Physical Education 345. (Formerly Physical Education 35a, 35b, and 245a, 245b.) Modern Dance. **Two hours.**

Modern dance and the fundamentals of movement and rhythm; dance composition.

Physical Education 352. (Formerly Physical Education 252.) Basketball and Softball for Women. **Two hours.**

Prerequisite: A student must have one semester of experience in these sports in Women's Recreation Association.

Theory, technique, and practice in teaching basketball and softball.

Physical Education 360. (Formerly Physical Education 37 and 260.) Coaching Basketball. **Two hours.**

Theory and practice in coaching the fundamentals of basketball; team offense and defense.

Physical Education 361. (Formerly Physical Education 38.) Field Hockey and Volleyball for Women. **Two hours.**

Prerequisite: A student must have one semester of experience in these sports in Women's Recreation Association.

Theory, technique and practice in teaching field hockey and volleyball.

Physical Education 362. (Formerly Physical Education 39 and 265.) Coaching Track and Field. **Two hours.**

Theory and practice in coaching fundamentals involved in track and field.

Physical Education 366. (Formerly Physical Education 36.) Materials and Methods for Teaching Physical Education. **Two hours.**

Theories of play; study of existing play programs; correlation with other subjects; games, skills, lesson planning and observation.

Physical Education 367. Basic Tumbling and Apparatus Activities. **One hour.**

Participation in tumbling exercises and stunts upon the horizontal bar, parallel bars, trampoline, long horse, and horse with pommels, for the prospective tumbling and apparatus teacher. Safety methods, squad procedures, and pupil leadership are stressed.

Physical Education 368. Advanced Tumbling and Apparatus Activities. **One hour.**

A continuation of Physical Education 367 with the emphasis on series exercises on the mats, trampoline, parallel bars, horse with pommels, and horizontal bar.

Physical Education 370. Camp Administration. **Two hours.**

The responsibilities of a camp director concerning program, leadership, health and sanitation and related problems in a modern camping program. Field trips will be taken to camping areas.

Physical Education 400. Organization of School Recreation Activities. **Three hours.**

Students will study problems related to directing recreational activities within a school system. Two hours of laboratory will be assigned each student so they will receive practical experience in directing a school recreation program.

Physical Education 401. Community Recreation. **Three hours.**

The problems of leisure; vacation time for children; adult recreation; content of school programs for leisure education; dramatics; reading; music; art; handicrafts; nature study; extracurricular activities.

Physical Education 420. (Formerly Physical Education 42 and 260.) Coaching Football. **Two hours.**

Theory and practice in coaching the fundamentals of football; team offense and defense.

Physical Education 468. (Formerly Physical Education 46.) Administration and Organization of Physical Education. **Two hours.**

Policies and procedures of administration on the elementary and secondary school level. Special emphasis on construction and care of facilities, equipment, and supervision of personnel.

Physical Education 475. (Formerly Health 475.) Tests and Measurements in Physical Education. **Three hours.**

The students become familiar with the various tests and measurements in this field. They learn how to give and score the tests, evaluate and use the results obtained in the testing program.

GRADUATE DIVISION COURSES

Physical Education 549. Advanced Study in History, Principles, and Modern Trends in Physical Education. **Three hours.**

Students will review history and principles and their application to new trends in this field of study. (A research project is required.)

Physical Education 550. Curriculum Design in Physical Education. **Three hours.**

Problems relating to design of programs in physical education will be studied. A curriculum project will be developed by each student.

Physical Education 551. Planning and Construction Techniques of Facilities and Equipment in Physical Education. **Two hours.**

The problems relating to programming facilities and equipment in physical education will be studied. Students will visit and make surveys of surrounding facilities under the direction of an instructor.

Physical Education 562. Adapted Physical Education. **Three hours.**

Students will study the basic principles of a good adapted program for handicapped students. A practical project will be required of each student.

Physical Education 569. Organization and Administration of Athletics. **Three hours.**

This course deals with the organization of high school and college athletics with reference to national, state, and local control. It considers staff, program, budget, health and safety, insurance, facilities, and other phases of administration.

Physical Education 580. Interpretation of Data in Physical Education. **Three hours.**

Methods and techniques in statistics and their interpretation as related to physical education activities will be studied. Students will be assigned statistical problems with physical education data.

Physical Education 591. Independent Problems in Physical Education. **Three hours.**

The student will solve an independent problem in physical education. The solution of this problem will be made by using proper research techniques and through scheduled conferences with an assigned member of the physical education staff.

PHYSICS

(Recommended curriculum for a major in Physics with right of teaching certificate)

First Year

First Semester	Hours	Second Semester	Hours
English 101	3	English 102	3
Mathematics 107	3	Mathematics 108	2
Military Science 101 (Men)		Mathematics 113	3
or		Military Science 102 (Men)	
Elective (Women)	2	or	
Physical Education 115	1	Elective (Women)	2
Physics 131	5	Physical Education 116	1
Social Science 100	3	Physics 107	1
Orientation 100	1	Social Science 101	3
		Orientation 101	1
	18		16

Second Year

Education 202	2	English 212	3
English 211	3	Mathematics 251	5
Mathematics 232	3	Military Science 202 (Men)	
Military Science 201 (Men)		or	
or		Elective (Women)	2
Elective (Women)	2	Physics 202	6
Physics 201	6	Psychology 211	3
	16		19

Third Year

Chemistry 111	4	Chemistry 112	5
Education 315	2	Education 316	2
History 246	3	Health 201	3
Mathematics 352	3	History 247	3
Physics Elective	5	Physics Elective	6
	17		19

Fourth Year

Education 384	2	Education 364	6
Physics Elective	6	Education 463	10
*Restrictive Elective	6		
Elective	3		
	17		16

Recommended Curriculum for a Second Major in Physics (with right of teaching certificate)

A student with a first major in some other department may take the following courses for a second major in Physics: Physics 201, 202, or equivalent (we interpret Physics 131, 132 and 203 as equivalent), and 14 additional hours of Physics numbered above 202 as directed by the head of the Physics Department. Also Chemistry 111 and Chemistry 112 are required.

All majors in Physics, whether first or second, must have their curriculum contracts checked with the Head of the Physics Department, and must show an interest in the profession of Physics over and above the mere taking of courses.

*Restrictive Elective will require that the student select six hours from the following: Art 200, Art 390, Art 391, six hours of Foreign Language, History 498, History 499, Music 271, Music 371, Music 372.

Recommended Curriculum for a Minor in Physics (with right of teaching certificate)

A student with a major and a minor in other departments may take the following courses for a minor in Physics: Physics 201, 202, or equivalent, and 8 hours of elective as directed by the head of the Physics Department, in addition to the mathematics courses necessary for the Physics courses. In addition 9 hours of Chemistry are recommended.

PHYSICS

(Recommended curriculum for a major in Physics without right of teaching certificate)

First Year

First Semester	Hours	Second Semester	Hours
English 101	3	English 102	3
Mathematics 107	3	Mathematics 108	2
Military Science 101 (Men)		Mathematics 113	3
or		Military Science 102 (Men)	
Elective (Women)	2	or	
Physical Education 115	1	Elective (Women)	2
Physics 131	5	Physical Education 116	1
Social Science 100	3	Physics 107	1
Orientation 100	1	Social Science 101	3
		Orientation 101	1
	<hr/>		<hr/>
	18		16

Second Year

English 211	3	English 212	3
History 246	3	Mathematics 251	5
Mathematics 232	3	Military Science 202 (Men)	
Military Science 201 (Men)		or	
or		Elective (Women)	2
Elective (Women)	2	Physics 202	6
Physics 201	6		
	<hr/>		<hr/>
	17		16

Third Year

Chemistry 111	4	Chemistry 112	5
Foreign Language	3	Foreign Language	3
Mathematics 352	3	History 247	3
Physics Elective	6	Physics Elective	6
	<hr/>		<hr/>
	16		17

Fourth Year

Physics Elective	8 or 9	Physics Elective	8 or 9
Elective	9	Elective	9
	<hr/>		<hr/>
	17 or 18		17 or 18

Recommended Curriculum for a Second Major in Physics (without right of teaching certificate)

A student with a first major in some other department may take the following courses for a second major in Physics: Physics 201, 202, or equivalent (we interpret Physics 131, 132 and 203 as equivalent), and 27 additional hours of Physics numbered above 202 as directed by the Head of the Physics Department. Also Chemistry 111 and 112 are required.

All majors in Physics, whether first or second, must have their curriculum contracts checked with the Head of the Physics Department, and must show an interest in the profession of Physics over and above the mere taking of courses.

PHYSICS

LOWER DIVISION COURSES

Physics 107. Slide Rule Theory and Practice. One hour.

Designed to aid the student in making mathematical computations easily and rapidly.

Physics 131. Elementary Physics. Five hours.

Prerequisite: One unit each of high school algebra and plane geometry.

The fundamental ideas of mechanics; molecular physics; heat. Three lecture and four laboratory hours.

Physics 132. Elementary Physics. Five hours.

Prerequisite: Physics 131.

Electricity; magnetism; wave motion; sound; light. Three lecture and four laboratory hours.

Physics 201. Mechanics, Molecular Physics and Heat. Six hours.

Prerequisite: Trigonometry.

Falling bodies; Newton's laws of motion and applications to practical problems; curvilinear motion; composition and resolution of forces; the laws of equilibrium and their application to various problems; work and energy; machines; momentum; elasticity; simple harmonic motion; hydrodynamics; heat and molecular physics including thermometry, pressure, expansion of solids, liquids, and gases; modern radiation theory. Four lecture and four laboratory hours.

Physics 202. Electricity, Magnetism, Wave Motion, Sound and Light. Six hours.

Prerequisite: Physics 201.

Electrostatics; the nature of electricity; magnetism; Ohm's law; measurement of electrical quantities; sources of electrical energy; Lenz's law; inductance and capacity; alternating currents; electric waves and radio; theories and problems in sound and light. Four lecture and four laboratory hours.

Physics 203. Problems in General Physics. Two hours.

Prerequisite: Physics 131, 132, or equivalent.

Solution of approximately 450 problems selected from topics in an advanced general Physics text. Two recitation hours.

UPPER DIVISION COURSES

(Open to Junior, Senior, and Graduate Students)

Physics 300. Modern Physics. Three hours.

Prerequisite: Physics 202 or equivalent, Mathematics 352, or registration in Mathematics 352.

The electron; positively charged particles; electric discharge in gases; x-rays and crystal structure; waves and particles; quantum theory; relativity, hydrogen atom and spectra; molecular motion; quanta and spectra.

Physics 302. Physical Optics. Three hours.

Prerequisite: Physics 201 and 202, or equivalent.

Wave motion; reflection and refraction; further study of lenses; the telescope; dispersion; facts concerning the spectrum; interference; diffraction; plane polarized light; the electromagnetic theory of light; the quantum theory; origin of spectra. Three recitation hours.

Physics 303. Heat. Three hours.

Prerequisite: Physics 201 and 202, or equivalent.

Review of theories and discoveries; thermometry; specific heats; thermal expansion; transfer of heat; laws of thermodynamics; radiation; change of state; continuity of state; production of low temperatures; production of high temperatures. Three recitation hours.

Physics 304. Advanced Electricity and Magnetism. Three hours.

Prerequisite: Physics 201 and 202, or equivalent, and Mathematics 352.

Magnetism; the electric current; electrostatics; electrolysis; thermoelectricity; electromagnetics; alternating currents; electromagnetic radiation; conduction in gases; electrons and atoms. Three recitation hours.

Physics 305. Advanced Electricity and Magnetism Laboratory. Two hours.

Prerequisite: Physics 132 or 202, or equivalent.

Calibration and use of advanced electrical instruments; precision measurements of inductance, capacitance, resistance, and voltage; basic experiments on vacuum tubes; use of cathode ray oscilloscope. Four laboratory hours per week.

Physics 306. Advanced General Laboratory. Two hours.

Prerequisite: Physics 132 or 202, or equivalent.

Largely for students majoring or minoring in physics. Consists of the performance and reporting of a carefully selected group of experiments considerably more advanced than in the elementary laboratories. The experiments will spread across the various branches of physics and cover ideas and techniques considered essential to the training of a well-rounded physicist. Four laboratory hours per week.

Physics 307. Electronics. Three hours.

Prerequisite: Physics 202 or equivalent.

Theory of thermionic tubes and solid state devices; amplifier circuit principles; photosensitive devices; rectifiers; principles of radio, radar and television. Three recitation hours; several laboratory experiments.

Physics 310. Special Problems in Physics. One to three hours.

Prerequisite: Physics 202 or equivalent.

Working out of special laboratory experiments; development of new equipment; or solution of special mathematical problems related to physics.

Physics 311. Special Problems in Physics. One to three hours.

This course is a continuation of Physics 310.

Physics 315. Radioactivity and Nuclear Physics. Three hours.

Prerequisite: Physics 300, or equivalent.

Natural radioactivity; radiation detectors; induced radioactivity; Alpha, Beta, and Gamma rays; neutrons; other particles; cosmic radiation; nuclear fission; applications of radioactivity. Three recitations per week. Some experiments.

Physics 360. Topic in Physics for Teachers. Four hours.

Topics from general physics selected to aid the high school teacher of physics and general science to teach with greater confidence. Lecture three hours; laboratory and discussion two hours.

Physics 401. Physics for High School Teachers I. Three hours.

Prerequisite: One year of college physics.

Topics from general physics designed to assure that the teacher is prepared to teach high school physics with ease and confidence. Topics from advanced physics and modern physics designed to give the teacher that extra knowledge which will enable him to teach with a greater understanding, and possibly inspire the students. Two hours lecture and two hours laboratory and discussion.

Physics 402. Physics for High School Teachers II. Three hours.

A continuation of Physics 401.

Physics 415. Advanced Nuclear Laboratory. Two hours.

Prerequisite: Physics 315.

Performance of approximately twelve experiments in nuclear physics; radiation instruments and methods; range and energy of particles; absorption, half-life; neutron moderators and neutron flux measurements; coincidence techniques.

Physics 455. (Also listed as Mathematics 455.) Theoretical Mechanics. Three hours.

May be taken either in the Mathematics or Physics Department.

Prerequisite: Mathematics 352 and Physics 201 or 202, or equivalent.

Fundamental concepts of mechanics; rectilinear motion of a particle; curvilinear motion; particle dynamics from the point of view of energy; statics of a particle; statics of a rigid body; dynamics of a rigid body; constrained motion; oscillations; motion of aggregates of particles; deformable bodies and wave motion; mechanics of fluids.

Physics 456. (Also listed as Mathematics 456.) Vector Analysis and Its Physical Application. Three hours.

May be taken either in the Mathematics or Physics Department.

Prerequisite: Mathematics 352 and Physics 202, or equivalent.

The algebra and calculus of vectors. Applications of vector analysis to solution of problems in geometry and physics.

POLITICAL SCIENCE

A student may major in Political Science (with or without right of teaching certificate) by taking a minimum of 30 semester hours. The following courses are required: Political Science 101, 102 or 103, 201, and 202. At least fifteen hours must be taken in upper division courses and three of these hours must be in political theory. A Political Science major is urged to take twelve semester hours in a foreign language if he begins the language in college, or six semester hours if he continues the language at the intermediate level.

It is recommended that a Political Science major take a minor in another social science or in English.

A student may minor in Political Science by taking a minimum of 18 semester hours. The following courses are required: Political Science 101, 201, and 202. The remaining nine hours must be in upper division courses.

(Recommended curriculum for a major in Political Science with right of teaching certificate)

First Year

First Semester	Hours	Second Semester	Hours
English 101	3	English 102	3
Foreign Language	3	Foreign Language	3
Military Science 101 (Men)		Military Science 102 (Men)	
or		or	
Elective (Women)	2	Elective (Women)	2
Physical Education 115	1	Physical Education 116	1
Biological Science	3	Political Science 101	3
Social Science 100	3	Science or Mathematics	3
Orientation 100	1	Orientation 101	1
	16		16

Second Year

English 211	3	Education 202	2
Foreign Language or elective.....	3	English 212	3
History 246	3	Foreign Language or elective.....	3
Military Science 201 (Men)		History 247	3
or		Military Science 202 (Men)	
Elective (Women)	2	or	
Political Science 102 or 103.....	3	Elective (Women)	2
Psychology 211	3	Political Science 201 or 202.....	3
	17		16

Third Year

Education 315	2	Education 316	2
Health 201	3	Political Science elective.....	6
Political Science 201 or 202.....	3	Science or Mathematics	3
Political Science elective	3	Elective	6
Physical Science	3		
Elective	3		
	17		17

Fourth Year

Education 384	2	Education 364	4
Political Science elective	9	Education 463	10
Elective	6	Social Science 466	2
	17		16

POLITICAL SCIENCE

(Recommended curriculum for a major in Political Science
without right of teaching certificate)

First Year

First Semester	Hours	Second Semester	Hours
English 101	3	English 102	3
Foreign Language	3	Foreign Language	3
Military Science 101 (Men)		Military Science 102 (Men)	
or		or	
Elective (Women)	2	Elective (Women)	2
Physical Education 115	1	Physical Education 116	1
Biological Science	3	Political Science 101	3
Social Science 100	3	Science or Mathematics	3
Orientation 100	1	Orientation 101	1
	16		16

Second Year

English 211	3	English 212	3
Foreign Language or elective	3	Foreign Language or elective	3
History 246	3	History 247	3
Military Science 201 (Men)		Military Science 202 (Men)	
or		or	
Elective (Women)	2	Elective (Women)	2
Political Science 102 or 103	3	Political Science 201 or 202	3
Physical Science	3	Science or Mathematics	3
	17		17

Third Year

Health 201	3	Political Science elective	6
Political Science 201 or 202	3	Elective	10
Political Science elective	3		
Elective	7		
	16		16

Fourth Year

Political Science elective	6	Political Science elective	3
Elective	9	Elective	12
	15		15

POLITICAL SCIENCE

LOWER DIVISION COURSES

(Open to Freshmen and Sophomore Students)

Political Science 101. (Formerly Government 211.) Principles of American Government. **Three hours.**

The principles and basic political institutions of the American system of government at the national level.

Political Science 102. Functions of American Government. **Three hours.**

Prerequisite: Political Science 101.

The major functions performed by national, state, and local governments in such areas as finance, foreign affairs, national defense, business, labor, agriculture, conservation, welfare, education, and transportation.

Political Science 103. (Formerly Government 212.) American State and Local Government. **Three hours.**

Prerequisite: Political Science 101.

Study of the institutions and processes of government of the fifty states and of the government of cities and counties.

Political Science 201. (Formerly Government 452.) Introduction to Foreign Governments. **Three hours.**

A survey of the constitutional and political characteristics of Great Britain, France, Germany, and the Soviet Union to introduce the student to the diversity of constitutional forms and political forces.

Political Science 202. (Formerly Government 413.) International Politics. **Three hours.**

An introductory survey of basic principles and forces in international politics. Emphasis is placed on the modern state system, nationalism, national power, balance of power, international economics, diplomacy, and world organization.

UPPER DIVISION COURSES

(Open to Junior, Senior, and Graduate Students)

(Only courses numbered 400 or above are open to graduate students)

Political Science 300. Survey of American Government. **Three hours.**

May not be taken for credit by students who have credit for Political Science 101.

This course is designed as an elective for students at the junior and senior levels who are not majors or minors in political science and who want a basic survey of American government as a part of their general background.

Political Science 310. American Politics and Parties. **Three hours.**

Prerequisite: Political Science 101.

A study of pressure groups and political parties in the United States. Covers the social composition, organization, finance, and nominating processes of political parties and analyzes voting behavior.

Political Science 320. (Formerly Government 422.) Public Administration. **Three hours.**

Prerequisite: Political Science 101 and either 102 or 103.

Covers such topics as: the functions of a governmental executive, governmental organization, area and administration, personnel management, fiscal management, public relations, and responsibility and control. Designed for those who are interested in the government services as a career and for students of general political science.

Political Science 330. Government and Business. **Three hours.**

Prerequisite: Political Science 101 and three additional hours in political science; or six hours in economics or American history.

This course deals with the relationship of government—national and state—to the economy of the United States with particular emphasis on assistance to and regulation of agriculture, business and labor.

Political Science 362. (Formerly Government 362.) Government of Kentucky. **Three hours.**

Designed for those students interested in how Kentucky is governed. Covers the political setting, popular control of government, constitution, legislature, governor, courts, local government, finance, functions of government, and relation to national government.

Political Science 401. (Formerly Government 351.) British Government and the Commonwealth. **Three hours.**

Prerequisite: Political Science 201 and either six additional hours of political science or six hours of English history, or graduate standing.

A study of the constitutional system and political institutions of Great Britain. Attention is given to the historical, geographical, social, and economic factors which influence the political system. The nature and development of the Commonwealth and the significance of the Commonwealth for Great Britain are examined.

Political Science 405. Government and Politics of the Far East. **Three hours.**

Prerequisite: Political Science 201, 202 and three additional hours of political science, or graduate standing.

A consideration of the modern political systems of Japan, Korea, Communist China and Nationalist China on Formosa. Some attention will also be paid to the nations of Southeast Asia.

Political Science 410. American Foreign Policy. **Three hours.**

Prerequisite: Political Science 101 and 202 and either three additional hours of political science or six hours of American History, or graduate standing.

A study of the processes and content of United States foreign policy.

Political Science 421. (Formerly Government 421.) American Constitutional Law. **Three hours.**

Prerequisite: Political Science 101 and six additional hours of political science, or graduate standing.

A study of the major provisions of the American constitution and the way in which they have been interpreted by the Supreme Court. Supreme Court opinions are read and analyzed.

Political Science 430. Municipal Government and Administration. **Three hours.**

Prerequisite: Political Science 101 and either 102 or 103, or graduate standing.

Examines urban areas as a major phase of contemporary American life. Attention given to the development, powers, political background, structure, functions, governmental setting, and problems of cities and the rapid growth of their suburbs. Stress laid on the challenge posed by the partially unplanned development of super-urban complexes cutting across traditional political divisions and authorities, and on urban life as the emergent pattern of American society.

Political Science 455. (Formerly Government 455.) History of Political Theory I. **Three hours.**

Prerequisite: Six hours in political science and six hours in history or economics, or graduate standing.

A survey of political thought from the time of Plato to the Reformation.

Political Science 456. (Formerly Government 456.) History of Political Theory II. **Three hours.**

Prerequisite: Same as for Political Science 455.

A survey of political thought from the Sixteenth Century to the present.

Political Science 457. American Political Thought. **Three hours.**

Prerequisite: Six hours in political science and six hours in economics or history, or graduate standing.

An intensive exploration of the major currents in political thought which have justified and guided the growth of the American republic. Largely organized on a chronological basis, but delves in depth into the main schools of thought that have both reflected and energized the development of the American political process. Focuses special attention upon the bearing this thought has on this country's position of world leadership.

PSYCHOLOGY

Psychology 211. General Psychology. Three hours.

Preview of psychology; factors in development; motivation; emotions; learning; the management of learning; thinking; personality and individual differences; intelligence; vocational and employment psychology; getting along with people; psychology and social problems.

Psychology 212. Applied Psychology. Three hours.

Prerequisite: Psychology 211.

A study of psychological factors in occupational choices and of applications in fields such as advertising, industry, law, medicine, and personnel work.

Psychology 308. Abnormal Psychology. Three hours.

Prerequisite: Psychology 211.

A study of the nature, causes, and prevalence of disorders of sensory and motor activities, memory, emotions, intelligence, and personality.

GRADUATE DIVISION COURSES

Psychology 500: Social Psychology. Three hours.

Prerequisite: Psychology 211.

A study of social phenomena in terms of the original and acquired reaction systems of the individual. Special consideration given to group behavior, role status, attitudes, prejudice, crowds, mob behavior, propaganda, and nationalism.

Psychology 501. (Formerly Education 54 and 522.) Personality Development and Adjustment. Three hours.

Foundations of personality; human development and personality; the home and personality; the school and personality; the social order and personality; frustration and aggression; conflicts and other maladjustments; the analysis and personality; improving personality; educational implications of the psychology of personality; a case history illustrating the foregoing topics.

SCIENCE

(Recommended curriculum for the training of teachers of the Sciences with right of teaching certificate)

First Year

First Semester	Hours	Second Semester	Hours
Chemistry 111	4	Chemistry 112	5
English 101	3	English 102	3
Mathematics 107	3	Mathematics 113	3
Military Science 101 (Men)		Military Science 102 (Men)	
or		or	
Elective (Women)	2	Elective (Women)	2
Physical Education 115	1	Physical Education 116	1
Social Science 100	3	Social Science 101	3
Orientation 100	1	Orientation 101	1
	17		18

Second Year

Biology 131 or 141	3 or 4	Biology 132 or 142	3 or 4
English 211	3	Education 202	2
Military Science 201 (Men)		English 212	3
or		Health 201	3
Elective (Women)	2	Military Science 202 (Men)	
*Physics 201	6	or	
Psychology 211	3	Elective (Women)	2
		*Physics 202	6
	17 or 18		19 or 20

Third Year

Art 200	3	Biology 132 or 142	3 or 4
Biology 131 or 141	3 or 4	Education 316	2
Education 315	2	History 247	3
History 246	3	Music 271	3
Science Elective	6 or 7	Science Elective	6 or 7
	17 or 18		17 or 18

Fourth Year

Education 384	2	Education 364	6
Geology 301	3	Education 463	10
Science Elective	8		
Elective	3 or 4		
	16 or 17		16

The student must take at least five additional hours each in Biology, Chemistry, and Physics. Electives must be so chosen as to include at least 18 hours of 300 and 400 courses.

*Physics 131, 132, and 203 may be substituted for Physics 201 and 202.

NONSPECIALIZED SCIENCE

LOWER DIVISION COURSES

Science 109. Physical Science I. Three hours.

(Not open to students who have completed college laboratory courses in physics.)

A course designed to give to the students whose primary interests are in other fields an understanding of some basic scientific problems and their importance in the scientific age. Topics on force, energy, heat, sound, light, electricity, magnetism, electrons and nuclear phenomena give the student a broad view of the universe. Two lecture hours and two laboratory hours.

Science 110. Physical Science II. Three hours.

(Not open to students who have completed college laboratory courses in chemistry.)

The purpose of this course is to present some of the basic principles of chemistry and to show how chemistry affects man in both the economic and cultural areas of his life and activities. Two lecture hours and two laboratory hours.

Science 111. Biological Science I. Three hours.

(Not open to students who have completed college laboratory courses in biology or zoology.)

The principles of animal biology, with emphasis on the vertebrates and the basic concepts of evolution. Two lecture hours and two laboratory hours.

Science 112. Biological Science II. Three hours.

(Not open to students who have completed college laboratory courses in biology or botany.)

The principles of plant biology, with emphasis on the angiosperms; basic concepts of reproduction in plants and inheritance. Two lecture hours and two laboratory hours.

UPPER DIVISION COURSES

(Open to Junior, Senior, and Graduate Students)

Science 310. History of Science. Three hours.

The development of scientific concepts through the ages; contribution of science to civilization; relations of scientific developments and various philosophies; biographical sketches. Three lecture hours.

Science 351. Science for Elementary Teachers. Three hours.

Prerequisite: Science 109, 110, 111, 112, or equivalent.

Concepts of science, experiments and demonstrations useful to the teaching of science from Kindergarten through grade 6. Five discussion-laboratory hours.

GRADUATE DIVISION COURSES

Science 500. The Impact of Science on Society. Three hours.

The effects of various scientific theories and discoveries on man's thinking and modes of living. Some of the works of such men as Aristotle, Copernicus, Kepler, Galileo, Newton, Stahl, Lavoisier, Black, Faraday, Joule, Darwin, Mendel, Pasteur, Jeans, The Curies, Planck, Einstein, will be studied. The greater emphasis will be placed on the 19th and 20th centuries.

SOCIAL SCIENCE AREA

(Recommended curriculum for a major in the Area of Social Science with right of teaching certificate)

First Year

First Semester	Hours	Second Semester	Hours
Anthropology 100	3	Art 200	3
English 101	3	English 102	3
Geography 101	3	Military Science 102 (Men)	
Military Science 101 (Men)		or	
or		Elective (Women)	2
Elective (Women)	2	Physical Education 116	1
Physical Education 115	1	Psychology 211	3
Science 111	3	Science 112	3
Orientation 100	1	Social Science 101	3
		Orientation 101	1
	16		19

Second Year

English 211	3	Education 202	2
History 202	3	English 212	3
History 246	3	History 203	3
Military Science 201 (Men)		History 247	3
or		Military Science 202 (Men)	
Elective (Women)	2	or	
Political Science 101	3	Elective (Women)	2
Science 109	3	Science 110	3
	17	Sociology 231	3
			19

Third Year

Economics 230	3	Economics Elective	3
Education 315	2	Education 316	2
History 340	3	European History Elective	3
Sociology 332	3	History 498	3
Elective	6	Music 271	3
	17	Political Science Elective	3
			17

Fourth Year

Education 384	2	Education 364	4
Geography Elective	3	Education 463	10
Health 201	3	Social Science 466	2
History 448	3		
History 499	3		
Elective	3		
	17		16

SOCIAL SCIENCE AREA

(Recommended curriculum for a major in the area of Social Science without right of teaching certificate)

First Year

First Semester	Hours	Second Semester	Hours
Anthropology 100	3	English 102	3
English 101	3	Foreign Language	3
Foreign Language	3	Military Science 102 (Men)	
Military Science 101 (Men)		or	
or		Elective (Women)	2
Elective (Women)	2	Physical Education 116	1
Physical Education 115	1	Science 112	3
Science 111	3	Social Science 101	3
Orientation 100	1	Elective	3
		Orientation 101	1
	16		19

Second Year

Geography 101	3	Art 200	3
History 202	3	History 203	3
History 246	3	History 247	3
Military Science 201 (Men)		Military Science 202 (Men)	
or		or	
Elective (Women)	2	Elective (Women)	2
Political Science 101	3	Science 110	3
Science 109	3	Sociology 231	3
	17		17

Third Year

Economics 230	3	Economics Elective	3
English 211	3	English 212	3
English Elective	3	European History Elective	3
History 340	3	History 498	3
Music 271	3	Political Science Elective	3
Sociology 332	3	Elective	3
	18		18

Fourth Year

Geography Elective	3	Social Science Elective	9
Health 201	3	Elective	7
History 448	3		
History 499	3		
Elective	5		
	17		16

GENERAL SOCIAL SCIENCE

Social Science 100. Contemporary Social Problems. **Three hours.**

Biological, psychological, and geographic factors in human development; culture; population; problems of the family; the nature and development of education; the organization and role of modern education; recreational institutions; religious institutions; health institutions; aesthetic institutions; economic institutions and problems; the problems of government; alternative, economic and governmental systems; international relations.

Social Science 101. Contemporary Social Problems. **Three hours.**

A continuation of Social Science 100.

UPPER DIVISION COURSES

(Open to Junior, Senior, and Graduate Students)

Social Science 466. Teaching of the Social Studies in the Secondary School. **Two hours.**

A study of the trends and objectives of the social studies; the techniques involved in the learning process; materials, both basic and supplementary to enrich the teaching; the various methods of teaching; evaluation of the learning processes; understanding of the social studies as they develop civic competence and an understanding of social relations.

ANTHROPOLOGY

LOWER DIVISION COURSES

Anthropology 100. Culture and Civilization. **Three hours.**

The scientific study of man's way of life with emphasis on the concept of culture as the key to explaining the distinct differences between man and other animals. The nature and dynamics of culture with examples drawn largely from pre-literate peoples.

UPPER DIVISION COURSES

(Open to Junior, Senior, and Graduate Students)

Anthropology 300. Man's Biocultural Heritage. **Three hours.**

The study of man as a biological organism and as a culture-building animal; the development of the human species from first appearance to the present as shown by fossil evidence; the development of culture from its earliest beginnings to the present as demonstrated by archeological evidence; the interaction between these two components of man's development and the contribution of each to man's adaptation to and control of the environment; an attempt to synthesize both fact and theory in the biological and cultural evolution of man.

Anthropology 350. Social Anthropology. **Three hours.**

Prerequisite: Anthropology 100 or equivalent.

The use of the comparative approach in the analysis of structure, function, and change in social and cultural systems; the development of generalizations concerning human society based on a comparison of social institutions in various cultures with particular emphasis on nonliterate peoples. (Same as Sociology 350.)

SOCIOLOGY

LOWER DIVISION COURSES

Sociology 231. Human Society. Three hours.

A systematic study of the fundamental concepts and principles of sociology; the nature of culture and society; social interaction; forms of collective behavior; communities; social organization and institutions; social change.

UPPER DIVISION COURSES

(Open to Junior, Senior, and Graduate Students)

Sociology 332. (Formerly called Current Social Problems.) Urbanization of World Societies. Three hours.

Prerequisite: Sociology 231 or equivalent.

A study of urbanization in the modern world; characteristics of the pre-industrial city, past and present; effect of industrialization; transition to urban life; characteristics of urban communities; social problems resulting from transition; study of specially selected world areas to illustrate problems of urban and industrial growth.

Sociology 350. Social Anthropology. Three hours.

Prerequisite: Sociology 231 or equivalent.

The use of the comparative approach in the analysis of structure, function, and change in social and cultural systems; the development of generalizations concerning human society based on a comparison of social institutions in various cultures with particular emphasis on nonliterate peoples. (Same as Anthropology 350.)

The John Grant Crabbe Library houses 150,000 volumes and offers excellent study and research facilities.

A large air-conditioned addition is planned for this building.



SPANISH

A student may major in Spanish by taking a minimum of 24 hours in Spanish.

A student with a major and a minor in other departments may take 18 semester hours for a minor in Spanish.

LOWER DIVISION COURSES

Spanish 101. (Formerly Spanish 11.) Elementary Spanish. **Three hours.** Grammar; pronunciation; reading of easy Spanish.

Spanish 102. (Formerly Spanish 12.) Elementary Spanish. **Three hours.**

Prerequisite: Spanish 101 or one unit of high school Spanish.

A continuation of Spanish 101.

Spanish 201. (Formerly Spanish 21.) Intermediate Spanish. **Three hours.**

Prerequisite: Spanish 101 and 102, or two units of high school Spanish.

Review of grammar. Selected materials about Spain and Latin America. Representative short stories of authors throughout the world using the Spanish medium.

Spanish 202. (Formerly Spanish 22.) Intermediate Spanish. **Three hours.**

Prerequisite: Spanish 201 or three units of high school Spanish.

Continuation of Spanish 201.

UPPER DIVISION COURSES

(Open to Junior, Senior, and Graduate Students)

Spanish 301. (Formerly Spanish 31.) The Spanish Novel. **Three hours.**

Prerequisite: Two years of college Spanish or the equivalent.

Reading of selected novels of the Golden Age and of the eighteenth century.

Spanish 302. (Formerly Spanish 32.) The Spanish Novel. **Three hours.**

Prerequisite: Spanish 301 or its equivalent.

Novels of the nineteenth and twentieth centuries.

Spanish 401. (Formerly Spanish 41.) Spanish Drama and Poetry. **Three hours.**

Prerequisite: Two years of college Spanish or the equivalent.

Selected Spanish plays and poetry prior to the nineteenth century.

Spanish 402. (Formerly Spanish 42.) Spanish Drama and Poetry. **Three hours.**

Prerequisite: Spanish 401 or its equivalent.

Spanish drama and poetry of the nineteenth and twentieth centuries.



Official Directory

Board of Regents.....	209
Administration	211
Faculty	212
Administrative Staff	232
Chairmen, Divisions of Instruction	234
Heads, Departments of Instruction	235
Administrative Committees....	236
Instruction Committees	237

PART SIX

BOARD OF REGENTS

1964-65

DR. HARRY M. SPARKS

State Superintendent of Public Instruction, ex officio Chairman

EARLE B. COMBS, SR., Richmond, Kentucky

F. L. DUPREE, Harlan, Kentucky

SIDNEY W. CLAY, Louisville, Kentucky

SENATOR WILSON PALMER, Cynthiana, Kentucky

JUDGE THOMAS B. McGREGOR, Frankfort, Kentucky

DR. RUSSELL I. TODD, Richmond, Kentucky

OFFICERS OF THE BOARD

DR. HARRY M. SPARKS, Chairman

EARLE B. COMBS, SR., Vice Chairman

J. C. POWELL, Secretary

A. H. DOUGLAS, Treasurer

THE ADMINISTRATION

ROBERT R. MARTIN, A.B., A.M., Ed.D.	President
JOHN L. VICKERS, B.S., M.A.	Executive Assistant to the President
WILLIAM J. MOORE, A.B., M.A., Ph.D.	Dean of College
J. C. POWELL, A.B., M.Ed.	Dean of Business Affairs
G. M. BROCK.....	Comptroller
HENRY G. MARTIN, A.B., M.A., Ed.D.	Dean of Students
EVELYN A. BRADLEY, A.B., M.A.	Dean of Women
CHARLES F. AMBROSE, A.B., M.A., Ed.D.	Dean of Admissions and Registrar
DONALD R. FELTNER, B.S., M.A.	Coordinator of Public Affairs Director of Publicity and Publications
J. DORLAND COATES, B.S., M.A., Ph.D.	Associate Dean of Instruction for Teacher Education
CLYDE L. ORR, B.S., M.S., Ed.D.	Associate Dean of Instruction for Graduate Studies
JOHN D. ROWLETT, B.S., M.S., Ed.D.	Director of Research

FACULTY

- ROBERT R. MARTIN, A.B., A.M., Ed.D.** **President**
 A.B., Eastern Kentucky State College; A.M., University of Kentucky; Ed.D., Teachers College, Columbia University. At Eastern since 1960.
- R. DEAN ACKER, B.A., M.Ed., Ed.D.** **Assistant Professor of Education**
 B.A., College of Wooster; M.Ed., University of Florida; Ed.D., University of Florida. At Eastern since 1963.
- JACK L. ADAMS, B.S., M.A.** **Instructor, Health & Physical Education**
Assistant Basketball Coach
Tennis Coach
 B.S., M.A., Eastern Kentucky State College. At Eastern since 1962.
- KERNEY M. ADAMS, A.B., A.M.** **Professor of History**
 Diploma, Eastern Kentucky State Normal School; A.B., University of Kentucky; A.M., Cornell University; additional graduate work, Harvard University. At Eastern since 1928.
- MARY AMELIA AKRIGHT, B.Music, M.Arts** **Instructor of Music**
 B. Music, M. Arts, University of Missouri; additional work, Detroit Conservatory, University of Michigan. At Eastern since 1962.
- AIMEE H. ALEXANDER, A.B., M.A.** **Assistant Professor of English**
 A.B., Transylvania College; M.A., University of Kentucky; additional graduate work, Columbia University, George Peabody College for Teachers. At Eastern since 1961.
- PATSY R. ALLISON, B.S., M.S.** **Instructor, Health & Physical Education**
Assistant Dean of Women
 B.S., Eastern Kentucky State College; M.S., Syracuse University. At Eastern since 1962.
- CHARLES F. AMBROSE, A.B., M.A., Ed.D.** **Associate Professor of Education**
Dean of Admissions and Registrar
 A.B., Transylvania College; Student, University of Louisville, Indiana University; M.A., Ed.D., University of Kentucky. At Eastern since 1961.
- MARGARET E. ANKENY, B.A., M.A., Ed.D.** **Professor of Education**
 B.A., M.A., Colorado State College of Education; Ed.D., Teachers College, Columbia University. At Eastern since 1961.
- T. L. ARTERBERRY, A.B., M.A.** **Assistant Professor of Education**
 A.B., M.A., University of Kentucky. At Eastern since 1959.
- JAMES E. BAECHTOLD, B.S., M.S.** **Associate Professor of Physical Education**
Head Basketball Coach
 B.S., Eastern Kentucky State College; M.S., Indiana University. At Eastern since 1958.

LANDIS D. BAKER, B.Mus., M.F.A. Associate Professor of Music
B.Mus., Heidelberg College; M.F.A., Ohio University; additional graduate work, University of Illinois. At Eastern since 1954.

DIXON A. BARR, B.S. in Ed., M.A. Professor of Education
B.S. in Ed., Ball State Teachers College; M.A., Teachers College, Columbia University; additional graduate work, Teachers College, Columbia University. At Eastern since 1961.

CLIFTON A. BASYE, B.S., M.S. Assistant Professor of Physics
B.S., Morehead State College; M.S. University of Kentucky. At Eastern since 1948.

WILLIAM H. BERGE, A.B., M.A. Assistant Professor of History
A.B., Eastern Kentucky State College; M.A., Vanderbilt University; additional graduate work, Vanderbilt University. At Eastern since 1961.

J. G. BLACK, B.S., M.S., Ph.D. Professor of Physics
B.S., M.S., University of Kentucky; Ph.D., University of Michigan. At Eastern since 1947.

JON F. BOTSFORD, B.S., M.S. Assistant Professor of Industrial Arts
B.S., M.S., Stout State College, Menominee, Wisconsin. At Eastern since 1964.

AUGUST D. BRACKETT, B.A., M.A. Instructor of Mathematics
B.A., University of Louisville; M.A., University of Kentucky. At Eastern since 1962.

EVELYN A. BRADLEY, A.B., M.A. Assistant Professor of Education
Dean of Women
A.B., Lindenwood College; M.A., Washington University; additional graduate work, University of Kentucky. At Eastern since 1962.

AGNES BRATLEE, B.S., M.Ed. Assistant Professor of Art
Certificate, Minot State College, B.S., University of North Dakota; M. Ed., University of Minnesota; additional graduate work, University of Minnesota; University of Colorado. At Eastern since 1964.

FRED W. BRIZENDINE, A.B., M.A. Instructor of Business
A.B., M.A., Western Kentucky State College; additional graduate work, George Peabody College. At Eastern since 1963.

ALLEN C. BROCK, B.S. in Ed., M.Ed. Assistant Professor of English
Student, Truett-McConnell College; B.S. in Ed., M.Ed., University of Georgia; additional graduate work, University of Georgia. At Eastern since 1960.

PHILLIPS V. BROOKS, B. A. Instructor of English
B.A., University of Kentucky; graduate work, University of Kentucky. At Eastern since 1962.

ELLIS BROUGHTON, B.S., M.A. Instructor of Business
B.S., Eastern Kentucky State College; M.A., Eastern Kentucky State College. At Eastern since 1962.

GEORGE M. BROWN, B.S. in Ed., M.S., in Ed.

**Assistant Professor
of Industrial Arts**

B.S. in Ed., Eastern Illinois University; M.S. in Ed., Northern Illinois University. At Eastern since 1963.

VEVA A. BUCHHOLZ, B.S. in Ed., M.S. **Assistant Professor of Home Economics**

B.S. in Ed., Eastern Illinois University; M.S., The University of Illinois; additional graduate work, Teachers College, Columbia University. At Eastern since 1959.

JANE CAMPBELL, B.Mus., A.B., A.M.

Associate Professor of Music

B.Mus., Taylor University, A.B., Ball State Teachers College; A.M., Teachers College, Columbia University; additional graduate Study, Columbia University; Student, Ecole Normale de Musique, Paris; International Summer School, Oxford University, England; Mozarteum, Salzburg, Austria; Private student, Nadia Boulanger, Willem Durieux, Ferdinand Schaefer, Lieff Rosanoff, Isolde Ahlgrimm. At Eastern since 1926.

JOHN MILTON CAMPBELL, B.S., M.S.

Assistant Professor of Biology

B.S., Western Kentucky State College; M.S., University of Kentucky; additional graduate work, University of Illinois. At Eastern since 1963.

GALAOR CARBONELL, B.S., M.A.

Instructor of Art

B.S., Florida Southern College; M.A., University of Kentucky; additional graduate work, University of Kentucky. At Eastern since 1961.

MARY E. CARROLL, B.A., M.S.

Assistant Professor of Home Economics

B.A., Eastern Kentucky State College; M.S., University of Kentucky; additional graduate work, Ball State Teachers College and University of Kentucky. At Eastern since 1963.

D. J. CARTY, B.S., M.A.

**Associate Professor of Education
Director of In-Service Education**

B.S., Eastern Kentucky State College; graduate student, University of Kentucky; M.A., University of Cincinnati. At Eastern since 1948.

CHARLES R. CELLA, B.A., M.A.

Instructor of English

B.A., Transylvania College; M.A., University of Kentucky; additional graduate work, University of Kentucky. At Eastern since 1963.

MARY CHEROS, B.A., M.Ed.

Assistant Professor of Education

B.A., Furman University; graduate work, Centenary College and Louisiana State University; M.Ed., University of Maryland; additional graduate work, University of Maryland. At Eastern since 1964.

HAZEL L. CHRISMAN, B.A., M.A.

Associate Professor of English

B.A., Berea College; M.A., University of Kentucky; additional graduate work, University of Kentucky. At Eastern since 1959.

RICHARD G. CHRISMAN, B.A., M.A. Associate Professor of Economics

B.A., Berea College; graduate student, New York University, University of Chicago, University of Kentucky Law School; M.A., University of Kentucky; additional graduate work, University of Pittsburgh, University of Denver. At Eastern since 1951.

WILLIAM HARRY CLARKE, B.M.Ed., M.A. Instructor of Music

Supervising Teacher, Laboratory School
B.M.Ed., Delta State College; M.A., George Peabody College for Teachers. At Eastern since 1963.

CHARLES CLEVER, B.S. Instructor of Mathematics

B.S., Grove College; additional graduate work at University of Kentucky. At Eastern since 1963.

J. DORLAND COATES, B.S., M.A., Ph.D. Professor of Secondary

Education; Associate Dean of Instruction for Teacher Education
B.S., Eastern Kentucky State College; M.A., George Peabody College for Teachers; Ph.D., Colorado State College of Education; post-doctoral work, University of Chicago. At Eastern since 1931.

MARILYN L. COLE, B.S., M.S. Instructor of Biology

B.S., Pennsylvania State University; M.S., Purdue University; Student, Ohio Wesleyan University. At Eastern since 1962.

DONALD COMBS, B.S., M.A. Instructor of Health and Physical Education

Coach of Swimming Team
B.S., M.A., Eastern Kentucky State College. At Eastern since 1963.

ANNA M. CORNELISON, B.S., M.A. Instructor of Elementary Education

Supervising Teacher, Laboratory School
B.S., M.A., Eastern Kentucky State College. At Eastern since 1963.

MEREDITH J. COX, B.S., M.A. Professor of Chemistry

Diploma, Warren Academy; B.S., M.A., George Peabody College for Teachers; additional graduate work, Columbia University, University of Wisconsin, Duke University, George Peabody College for Teachers, Ohio State University. At Eastern since 1924.

JACK E. CREECH, A.B., M.A. Assistant Professor of History,

Supervising Teacher, Laboratory School
A.B., M.A., Eastern Kentucky State College; additional graduate work, University of Kentucky. At Eastern since 1956.

OWEN JAMES CULLIVAN, B.S., M.A. Assistant Professor of Health

and Physical Education
B.S., M.A., Murray State College; additional graduate work, Indiana University. At Eastern since 1961.

DONALD DALY, B.S., M.A. Assistant Professor of Health and

Physical Education, Assistant Football Coach
B.S., M.A., Eastern Kentucky State College. At Eastern since 1960.

FRED DARLING, B.S., M.A., M.A. in Ed., Dir.R., Dir.P.E., Re.D.
Professor of Health and Physical Education

B.S., M.A., Eastern Kentucky State College; M.A. in Ed., University of Kentucky; Dir.R., Dir.P.E., Re.D., Indiana University. At Eastern since 1946.

J. HOMER DAVIS, B.S., M.Ed. Associate Professor of Industrial Arts

B.S., Eastern Kentucky State College; M.Ed., University of Missouri; additional graduate work, University of Kentucky. At Eastern since 1949.

NANCY DAVIS, B.M., M.M. Instructor of Music

B.M., M.M., University of Oklahoma; additional graduate work, University of Southern California. At Eastern since 1962.

C. COLTON DAWSON, B.S., M.A. Assistant Professor of Business

B.S., University of Kentucky; M.A., George Peabody College for Teachers; additional work toward Ph.D., New York University; Ohio State University; University of Kentucky. At Eastern since 1963.

DANIEL R. DEANE, JR., A.B., M.A.

Instructor of Art
Supervising Teacher, Laboratory School

A.B., M.A., University of Kentucky. Additional graduate work, Eastern Kentucky State College; additional graduate work, University of Kentucky. At Eastern since 1962.

RANDOLPH DOZIER, A.B., M.A.

Assistant Professor of Art

A.B., M.A., Eastern Kentucky State College. At Eastern since 1959.

LUCY EAST, A.B., M.A.

Assistant Professor of English
Supervising Teacher, Laboratory School

Student, Kentucky Wesleyan; A.B., M.A., Eastern Kentucky State College; additional graduate work, Eastern Kentucky State College. At Eastern since 1962.

EUGENE F. EGNEW, B.S., M.A.

Assistant Professor of Business

B.S., M.A., Eastern Kentucky State College. At Eastern since 1958.

FRED A. ENGLE, JR., B.S., M.B.A.

Assistant Professor of Business

B.S., Eastern Kentucky State College; M.B.A., University of Kentucky; additional graduate work, Eastern Kentucky State College, Indiana University, University of Kentucky. At Eastern since 1959.

DAVID M. EPSTEIN, B.A., M.A.

Assistant Professor of History

Student, Kansas City Junior College; B.A., Kansas City University; M.A., University of Kansas City; additional work, University of Nebraska. At Eastern since 1963.

DONALD R. FELTNER, B.S., M.A.

Assistant Professor of Journalism
Coordinator of Public Affairs

B.S., M.A., Eastern Kentucky State College; additional graduate work, University of Kentucky. At Eastern since 1956.

CHARLES R. FERGUSON, B.S., M.S. **Instructor of Biology**
 B.S., University of Southern Mississippi; M.S., University of Southern Mississippi. At Eastern since 1962.

CACUS P. FLESHER, B.S., M.A. **Instructor of Elementary Education**
Supervising Teacher, Laboratory School
 Student, University of Kentucky; B.S., Eastern Kentucky State College; graduate work, George Peabody College for Teachers; M.A., University of Kentucky. At Eastern since 1962.

BEN V. FLORA, JR., B.S., M.A. **Assistant Professor of Mathematics**
 B.S., Eastern Kentucky State College; M.A., George Peabody College for Teachers; additional work, University of Illinois. At Eastern since 1961.

ADRIANNA H. FRANCIS, B.S., M.A. **Instructor of Elementary Education**
Supervising Teacher, Laboratory School
 B.S., Pikeville College; M.A., Eastern Kentucky State College. At Eastern since 1963.

DAISY B. FRENCH, B.S., M.A. **Assistant Professor of Business**
 B.S., M.A., Eastern Kentucky State College; additional graduate work, University of Kentucky. At Eastern since 1956.

DWIGHT DEAN GATWOOD, BS., M.A. **Associate Professor of Art**
 B.S., M.A., George Peabody College for Teachers; additional graduate work, Ohio State University, New York University. At Eastern since 1947.

RICHARD LEE GENTRY, B.S., M.A. **Assistant Professor**
of Health and Physical Education
 B.S., M.A., Eastern Kentucky State College; student, Berea College, University of Kentucky. At Eastern since 1964.

CHARLES H. GIBSON, JR., B.S., M.A. **Instructor of Industrial Arts**
Supervising Teacher, Laboratory School
 Student, Berea College, Bucknell University, University of Pennsylvania, University of Louisville; B.S., M.A., Eastern Kentucky State College; additional graduate work, Eastern Kentucky State College. At Eastern since 1962.

***R. DALE GIVENS, B.A., M.A.** **Assistant Professor of Anthropology**
and Sociology
 Student, Edinburg Junior College; B.A., Baylor University; M.A., University of Texas; additional graduate work, State University of Iowa, San Diego State College, University of Arizona, University of California in Los Angeles. At Eastern since 1961.

JAMES A. GRAY, B.S., M.S. **Assistant Professor of Industrial Arts**
 B.S., M.S., Indiana State College; additional graduate work, Indiana State College, Ball State Teachers College. At Eastern since 1964.

PRESLEY M. GRISE, A.B., M.A., Ph.D. **Professor of English**
 A.B., Western Kentucky State College; M.A., George Peabody College for Teachers; Ph.D., University of Kentucky. At Eastern since 1930.

*On Leave 1964-65

ROBERT GRISE, A.B., M.A., Ed.D. Associate Professor of Education
A.B., M.A., Eastern Kentucky State College; additional graduate work, Indiana University; Ed.D., University of Kentucky. At Eastern since 1963.

ROSA Y. GROSS, B.S., M.A. Instructor of Chemistry
B.S., M.A., Eastern Kentucky State College; additional work, Eastern Kentucky State College, University of Kentucky, Harvard University. At Eastern since 1962.

NORVALINE C. HALE, B.S., M.A. Associate Professor of Business
B.S., M.A., Eastern Kentucky State College; additional graduate work, University of Kentucky. At Eastern since 1957.

FRANK L. HAMILTON, B.S., M.A. Instructor of Education
Counselor, Laboratory School
B.S., University of Virginia; M.A., Eastern Kentucky State College; additional graduate work, Eastern Kentucky State College. At Eastern since 1963.

DONALD C. HANEY, B.S., M.S. Assistant Professor of Geology
B.S., M.S., University of Kentucky; additional graduate work, Eastern Kentucky State College, Cumberland College. At Eastern since 1962.

PRICE HARRISON, B.S., M.S., Ed.D. Associate Professor of Health
and Physical Education
B.S., Middle Tennessee State; M.S., University of Tennessee; Ed.D., Boston University. At Eastern since 1963.

JAMES D. HAYNES, B.S. Ed., M.S. Instructor of Biology
B.S. Ed., Southeast Missouri State College; M.S., University of Tennessee; additional work, Stanford University, Indiana University, Iowa State University. At Eastern since 1963.

GLYNNA J. HAYS, B.S., M.S. Instructor of Home Economics
Supervising Teacher, Laboratory School
B.S., Eastern Kentucky State College; M.S., University of Kentucky. At Eastern since 1963.

CHARLES K. HENLEY, B.A., M.A. Instructor of English
B.A., M.A., University of Mississippi; additional graduate work, University of Mississippi. At Eastern since 1962.

DONALD G. HENRICKSON, B.Mus., M.Mus. Assistant Professor of Music
B.Mus., M.Mus., University of Illinois; additional graduate work, University of Illinois. At Eastern since 1959.

THOMAS C. HERNDON, A.A., B.S., M.A., Ph.D. Professor of Chemistry
A.A., Bethel College; B.S., University of Kentucky; graduate work, University of Chicago; M.A., Ph.D., George Peabody College for Teachers. At Eastern since 1930.

JANET HIBBARD, B.S., M.A. Assistant Professor of Business
B.S., M.A., Eastern Kentucky State College. At Eastern since 1961.

GEORGIA A. HILL, A.B., B.Mus., A.M. Assistant Professor of English
A.B., A.M., University of Michigan; graduate student, Indiana University; B.Mus., University of Kentucky; additional graduate work, University of Kentucky. At Eastern since 1960.

BENTLY J. HILTON, A.B., M.A., Ed.S. Assistant Professor of Business
A.B., M.A., Eastern Kentucky State College; Ed.S., University of Kentucky; additional graduate work, University of Kentucky. At Eastern since 1960.

EMOGENE M. HOGG, B.S., M.A. Assistant Professor of Business
B.S., Berea College; M.A., Eastern Kentucky State College; additional graduate work, University of Kentucky, University of Tennessee. At Eastern since 1960.

LAVERNE HOLCOMB, B.S., M.A. Instructor of Elementary Education
Supervising Teacher, Laboratory School
B.S., Eastern Kentucky State College; Instituto Tecnológico de Monterrey, Mexico; M.A., University of Kentucky. At Eastern since 1962.

GERTRUDE M. HOOD, A.B., A.M. Associate Professor of Health
and Physical Education
A.B., Ohio Wesleyan University; A.M., Columbia University. At Eastern since 1928.

AUGHTUM S. HOWARD, A.B., M.S., Ph.D. Professor of Mathematics
A.B., Georgetown College; graduate work, University of Michigan; M.S., Ph.D., University of Kentucky. At Eastern since 1958.

JOSEPH M. HOWARD, B.S., M.A., Ed.D. Professor of Education
B.S., Western Kentucky State College; M.A., George Peabody College; Ed.D., Teachers College, Columbia University. At Eastern since 1962.

CHARLES T. HUGHES, A.B., M.A. Professor of Health and Physical
Education
Diploma, Morton-Elliott Junior College; A.B., University of Kentucky; M.A., University of Michigan. At Eastern since 1929.

MARY K. INGELS, A.B., M.A. Assistant Professor of
Modern Foreign Languages
A.B., M.A., Eastern Kentucky State College; study tour, Ohio University; graduate study, Appalachian State Teachers College, Boone, North Carolina; L'Université de Besaucon, France. At Eastern since 1961.

ARTHUR L. JACKSON, A.B., M.A. Instructor of Biology
A.B., Trevecca College; M.A., Southern Illinois University; additional graduate work, University of Cincinnati. At Eastern since 1961.

PAUL F. JANZ, A.B., A.M. Assistant Professor of English
Student, St. Louis University, Washington University; A.B., A.M., University of Missouri; additional graduate work, University of Missouri. At Eastern since 1961.

MABEL W. JENNINGS, B.S., M.A., Ed.S.

**Assistant Professor
of Elementary Education**

B.S., M.A., Eastern Kentucky State College; additional graduate work, University of Chicago; Ed.S., University of Kentucky. At Eastern since 1947.

CHARLES D. JEWELL, A.A., B.S., M.A.

Instructor of English

A.A., Martin Junior College; B.S., Middle Tennessee College; M.A., George Peabody College for Teachers. At Eastern since 1963.

VIRGINIA N. JINKS, B.S. in Ed.

**Instructor of Health
and Physical Education**

B.S. in Ed., Bowling Green University; additional graduate work, University of Colorado, University of Michigan, University of Utah. At Eastern since 1963.

JOE M. JOHNSON, B.S., M.A.

Assistant Professor of English

B.S., M.A., University of Georgia; additional work, Emory University. At Eastern since 1962.

SANFORD L. JONES, B.S., M.S., Ph.D.

Associate Professor of Biology

B.S., Eastern Kentucky State College; M.S., University of Kentucky; Ph.D., Medical School, University of Tennessee. At Eastern since 1961.

OLAF RAY JORDAN, B.S., M.S.

Instructor of Biology

B.S., Tennessee Polytechnic Institution; M.S., University of Arkansas; additional work, University of Virginia. At Eastern since 1962.

SHIRLEY KEARNS, JR., A.B., M.A.

**Instructor of Physical Education
Supervising Teacher, Laboratory School**

A.B., M.A., Eastern Kentucky State College; additional graduate work, University of Kentucky, Eastern Kentucky State College. At Eastern since 1962.

QUENTIN B. KEEN, B.A., M.A., M.A.Ed., Ph.D.

Associate Professor of English

B.A., Berea College; M.A., Duke University; M.A.Ed., Eastern Kentucky State College; Ph.D., University of California at Los Angeles. At Eastern since 1955.

WILLIAM L. KEENE, B.S., M.A.

Professor of English

B.S., M.A., George Peabody College for Teachers; additional graduate work, George Peabody College for Teachers. At Eastern since 1926.

KARL KEMP, A.B., M.A.

Instructor of Business

A.B., M.A., Western Kentucky State College. At Eastern since 1963.

L. G. KENNAMER, A.B., B.S., M.A., Ph.D.

**Professor of Geography
and Geology**

A.B., Simmons University; student, University of Wisconsin, Vanderbilt University, University of Tennessee; B.S., M.A., Ph.D., George Peabody College for Teachers. At Eastern since 1928.

ROY KIDD, B.S., M.A.

**Instructor of Health and Physical Education
Head Football Coach**

B.S., M.A., Eastern Kentucky State College. At Eastern since 1963.

SE JIN KIM, B.A., M.A.

Instructor of Political Science

B.A., Southwestern at Memphis; M.A., University of Massachusetts; additional graduate work, University of Massachusetts. At Eastern since 1962.

DOROTHY KIRKPATRICK, B.S., M.S.

**Assistant Professor of Health
and Physical Education**

B.S., Winthrop College; M.S., University of Tennessee. At Eastern since 1962.

NICHOLAS J. KOENIGSTEIN, B.S., M.Mus.

**Assistant Professor of Music
Director of Bands**

B.S., Western Kentucky State College; M.Mus., West Virginia University. At Eastern since 1956.

KARL F. KUHN, B.A.

Instructor of Physics

B.A., Bellarmine College; additional graduate work, University of Kentucky. At Eastern since 1963.

ROBERT L. LADD, A.B., M.A.

Associate Professor of Foreign Languages

A.B., Carson Newman College; M.A., George Peabody College; additional graduate work, Xavier University, Peabody College, University of Kentucky, Miami University. At Eastern since 1963.

H. H. LaFUZE, A.B., M.S., Ph.D.

Professor of Biology

A.B., DePauw University; M.S., Ph.D., State University of Iowa; additional graduate work, Northwestern University. At Eastern since 1939.

ROBERT S. LARANCE, B.S., M.S.

Associate Professor of Bacteriology

B.S., Louisiana Polytechnic Institute; M.S., Louisiana State University; additional graduate work, Louisiana State University. At Eastern since 1956.

ROBERT M. LATHROP, B.S., M.A.

Assistant Professor of Geography

B.S., University of Kentucky; M.A., University of Georgia; additional graduate work, University of Georgia. At Eastern since 1964.

JOHN W. LEESON, A.B., M.A.

Assistant Professor of English

Student, Guilford College; A.B., Berea College; M.A., University of Kentucky. At Eastern since 1961.

CLYDE J. LEWIS, A.B., M.A., Ph.D.

Professor of History

A.B., Eastern Kentucky State College; M.A., University of Cincinnati; Ph.D., University of Kentucky. At Eastern since 1946.

DONALD LORD, A.B., M.A.

Assistant Professor of History

A.B., Oberlin College; M.A., Western Reserve University; additional graduate work, Western Reserve University. At Eastern since 1964.

RUTH A. McCANN, B.S., M.A.

**Instructor of Business
Supervising Teacher, Laboratory School**

B.S., M.A., Eastern Kentucky State College; additional graduate work, University of Kentucky. At Eastern since 1962.

- ALVIN McGLASSON, B.S., M.S.** Associate Professor of Mathematics
B.S., Eastern Kentucky State College; M.S., University of Kentucky; additional graduate work, University of Kansas. At Eastern since 1949.
- WILLARD THOMAS McHONE, A.B., M.Ed.** Assistant Professor of Art
A.B., Eastern Kentucky State College; M.Ed., University of Louisville. At Eastern since 1955.
- ALEX GENTRY McILVAINE, B.S., M.A.** Associate Professor of Business
B.S., M.A., Eastern Kentucky State College; additional graduate work, University of Kentucky. At Eastern since 1947.
- FRANCES M. McPHERSON, B.Mus., M.Mus.** Associate Professor of Music
B.Mus., Lindenwood College; M.Mus., Michigan State College; student, Rudolph Ganz, John Thompson, Horner Conservatory; Academie Marshall, Barcelona, Spain; Xavier Montsalvatge, composition; Alicia de Larrocha, piano. At Eastern since 1944.
- ARTHUR J. MANGUS, JR., A.B., M.A.** Assistant Professor of English
Student, Marshall College, Richmond Professional Institute, Texas College of Arts and Industries; A.B., Concord College; M.A., Marshall College; additional graduate work, University of Kentucky. At Eastern since 1959.
- PHILIP H. MANKIN, B.S., M.A.** Associate Professor of English
B.S., M.A., George Peabody College for Teachers; additional graduate work, Vanderbilt University. At Eastern since 1957.
- KATHERINE M. MARCUM, B.S., M.S.** Instructor of Elementary Education
Supervising Teacher, Laboratory School
B.S., M.S., Miami University; additional graduate work, Eastern Kentucky State College. At Eastern since 1962.
- WALTER MARCUM, B.S., M.A.** Associate Professor of Education
Director of the Laboratory School
B.S., Union College; M.A., University of Kentucky; additional graduate work, University of Kentucky. At Eastern since 1964.
- HENRY G. MARTIN, B.A., M.A., Ed.D.** Professor of Education
Dean of Students
B.A., Berea College; M.A., University of Kentucky; Ed.D., University of Tennessee. At Eastern since 1955.
- LARRY O. MARTIN, B.S., M.A.** Instructor of Industrial Arts
Director of Auxiliary Enterprises
B.S., M.A., Eastern Kentucky State College. At Eastern since 1960.
- MILDRED MAUPIN, B.S., M.A.** Instructor of Health and Physical Education
B.S., Appalachian State Teachers College; additional graduate work, Appalachian State Teachers College; M.A., Eastern Kentucky State College. At Eastern since 1962.
- ALAN MAXWELL, A.B., M.Ed.** Instructor of Biology
A.B., John B. Stetson University; M.Ed., University of Virginia. At Eastern since 1963.

JOHN L. MEISENHEIMER, B.A., Ph.D. Assistant Professor of Chemistry
B.A., Evansville College; Ph.D., Indiana University; post-doctoral research, Indiana University. At Eastern since 1963.

VICTOR MESSMER, B.S., M.B.A. Instructor of Business
B.S., Eastern Kentucky State College; M.B.A., University of Kentucky; additional graduate work, Case Institute of Technology. At Eastern since 1961.

GERALD W. MILLER, B.S., M.A. Assistant Professor of Art
B.S., Ball State Teachers College; M.A., University of Denver; additional graduate work, Indiana University, Michigan State University, University of Denver. At Eastern since 1961.

MARGARET H. MOBERLY, B.S., M.B.A. Associate Professor of Business
B.S., Eastern Kentucky State College; M.B.A., University of Chicago; additional graduate work, University of Kentucky. At Eastern since 1946.

LOUISE C. MONTGOMERY, B.S. Instructor of Business
B.S., Eastern Kentucky State College; student, Murray State College, Georgetown College; additional graduate work, Eastern Kentucky State College. At Eastern since 1962.

WILLIAM J. MOORE, A.B., M.A., Ph.D. Dean of the Faculty
Professor of Economics
Diploma, Eastern Kentucky State Normal School; Student, College of Law, University of Kentucky; A.B., M.A., Ph.D., University of Kentucky; post-doctoral work, University of Kentucky, University of Chicago. At Eastern since 1928.

WILLIE MOSS, B.S., M.A. Associate Professor of Home Economics
B.S., Western Kentucky State College; M.A., University of Kentucky; additional graduate work, University of Kentucky, Merrill Palmer School, University of Tennessee. At Eastern since 1952.

JOSEPH C. MOULEDOUS, B.A., M.A. Assistant Professor of Sociology
B.A., Louisiana State University; M.A., Louisiana State University; additional graduate work, University of Kentucky. At Eastern since 1964.

EDSEL R. MOUNTZ, B.S., M.A. Assistant Professor of Business
B.S., Eastern Kentucky State College; M.A., University of Kentucky. At Eastern since 1956.

THOMAS E. MYERS, B.S., M.S. Assistant Professor of Industrial Arts
B.S., M.S., North Texas State College; additional graduate work, University of Kentucky. At Eastern since 1952.

JANIS G. NEWKIRK, B.S., M.Ed. Instructor of Elementary Education
Supervising Teacher, Laboratory School
B.S., M.Ed., University of Louisville; additional graduate work, Eastern Kentucky State College. At Eastern since 1963.

SANDRA L. NOE, B.M. Ed., M.M.

Instructor of Music
Supervising Teacher, Laboratory School

B.M. Ed., Georgetown College; M.M., University of Kentucky; additional graduate work, Eastern Kentucky State College. At Eastern since 1963.

CARL OAKLEY, B.S., M.A.

Instructor of Health and Physical Education
Assistant Football Coach

B.S., Eastern Kentucky State College; M.A., Morehead State College. At Eastern since 1964.

WALTER M. ODUM, B.A., M.A.

Assistant Professor of History

B.A., M.A., Florida State University; additional graduate work, Florida State University. At Eastern since 1964.

FREDERIC D. OGDEN, A.B., Ph.D.

Professor of Political Science

A.B., Tusculum College; Ph.D., Johns Hopkins University. At Eastern since 1961.

JANET OLDHAM, B.S., M.S.

Assistant Professor of English

B.S., North Central College; M.S., University of Illinois; additional graduate work, Eastern Kentucky State College, University of Kentucky, Columbia University. At Eastern since 1962.

ROBERT L. OPPELT, B.S., M.S., A.Mus.D.

Associate Professor of Music

B.S., M.S., University of Illinois; A.Mus.D., Eastman School of Music, University of Rochester; two summers, Berkshire Music Center; Conductor, Eastern Orchestra; Summer, 1961; Danforth Grant, study with William Primrose. At Eastern since 1956.

CLYDE L. ORR, B.S., M.S., Ed.D.

Professor of Education;

Associate Dean of Instruction for Graduate Studies

B.S., Lincoln Memorial University; M.S., University of Tennessee; Ed.D., University of Kentucky. At Eastern since 1961.

GENEVA W. OWENS, A.B., M.A.

Assistant Professor of English

A.B., M.A., Eastern Kentucky State College; additional graduate work, University of Kentucky. At Eastern since 1960.

SMITH PARK, B.S., M.S., Ph.D.

Professor of Mathematics

B.S., M.S., Ph.D., University of Kentucky. At Eastern since 1923.

WILLIS M. PARKHURST, A.B., M.S.

Associate Professor of Education

A.B., M.S., Indiana State Teachers College; additional graduate work, Purdue University, George Peabody College for Teachers. At Eastern since 1955.

DALE R. PATRICK, B.S., M.S.

Assistant Professor of Industrial Arts

B.S., M.S., Indiana State Teachers College. At Eastern since 1956.

KERMIT PATTERSON, B.S., M.B.A.

Assistant Professor of Business

B.S., M.B.A., University of Kentucky; additional graduate work, Case Institute of Technology, University of Kentucky. At Eastern since 1955.

- J. HUNTER PEAK, A.B., M.A., Ph.D.** Professor of French
A.B., Hampden-Sydney College; M.A., Ph.D., University of North Carolina. At Eastern since 1964.
- JUANITA PEAK, A.B., M.A., M.S.L.** Assistant Professor of French
Supervising Teacher, Laboratory School
A.B., University of Kentucky; M.A., M.S.L., Middlebury College, Vermont. At Eastern since 1964.
- J. C. POWELL, A.B., M.Ed.** Associate Professor of Education
Dean of Business Affairs
A.B., University of Kentucky; M.Ed., University of Louisville; additional graduate work, University of Kentucky. At Eastern since 1960.
- GLENN E. PRESNELL, B.S.** Assistant Professor of Health and Physical Education, Director of Athletics
B.S., University of Nebraska; graduate student, University of Nebraska, Eastern Kentucky State College. At Eastern since 1947.
- HENRY F. PRYSE, A.B., M.A.** Assistant Professor of Social Science
Director of College-Community Relations
A.B., Centre College; M.A., Eastern Kentucky State College; additional graduate work, Eastern Kentucky State College, University of Kentucky. At Eastern since 1959.
- ALLEN E. RAGAN, A.B., M.A., Ph.D.** Associate Professor of Political Science
A.B., Miami University, Oxford, Ohio; M.A., University of Chicago; Ph.D., Ohio State University. At Eastern since 1963.
- VERA V. RALEIGH, A.B., M.A.** Assistant Professor of Geography
A.B., Eastern Kentucky State College; M.A. George Peabody College for Teachers; additional graduate work, George Peabody College for Teachers. At Eastern since 1959.
- JAMES E. RHEIN, B.S., M.A.** Instructor of Art
B.S., M.A., Eastern Kentucky State College; additional graduate work, Miami University, Indiana University. At Eastern since 1963.
- BYNO R. RHODES, B.A., M.A., Ph.D.** Professor of English
B.A., M.A., Ph.D., Vanderbilt University. At Eastern since 1958.
- MARY F. MCKINNEY RICHARDS, B.S., M.A.** Associate Professor of Geography
Diploma, Eastern Kentucky State Normal School; B.S., M.A., George Peabody College for Teachers. At Eastern since 1923.
- R. R. RICHARDS, A.B., M.B.A.** Professor of Business
A.B., Eastern Kentucky State College; graduate student, University of Kentucky; M.B.A., Boston University; additional graduate work, Boston University, University of Southern California. At Eastern since 1929.
- H. EDWARD RICHARDSON, A.B., A.M. Ed., A.M. Eng., Ph.D. Eng.** Associate Professor of English
A.B., A.M. Ed., Eastern Kentucky State College; A.M. Eng., Ph.D. Eng., University of Southern California; additional work, University of Kentucky. At Eastern since 1963.

HAROLD RIGBY, B.S., M.A. **Instructor of Music**
B.S., M.A., Eastern Kentucky State College. At Eastern since 1933.

GEORGE W. ROBINSON, B.S., M.S., Ph.D. **Associate Professor of History**
B.S., M.S., Ph.D., University of Wisconsin. At Eastern since 1956.

HAROLD E. ROBISON, B.M.Ed., M.Mus. **Assistant Professor of Music**
B.M.Ed., M.Mus., West Virginia University. At Eastern since 1960.

CHARLES L. ROSS, A.B., M.A., Ed.D. **Professor of Education**
A.B., Tusculum College; M.A., George Peabody College; Ed.D., University of Tennessee. At Eastern since 1963.

JOHN D. ROWLETT, B.S., M.S., Ed.D. **Professor of Industrial Arts**
Director of Research
B.S., M.S., North Texas State College; additional graduate work, Southern Methodist University, North Texas State College; Ed.D., University of Illinois. At Eastern since 1951.

RUBY RUSH, A.B., A.M. **Associate Professor of Latin**
Supervising Teacher, Laboratory School
Graduate, Virginia Intermont College; A.B., University of Kentucky; A.M., Columbia University. At Eastern since 1926.

DARNELL SALLYER, B.S., Ph.D. **Associate Professor of Chemistry**
B.S., Eastern Kentucky State College; Ph.D., The Ohio State University. At Eastern since 1959.

ETHEL SAMS, B.S., M.A. **Assistant Professor of Education**
B.S., Eastern Kentucky State College; M.A., George Peabody College; additional work, University of Louisville. At Eastern since 1963.

MAMIE W. SCOTT, A.B., M.A. **Associate Professor of Elementary Education**
A.B., Martha Washington College; M.A., University of Kentucky; additional graduate work, University of Kentucky, University of Tennessee, Eastern Kentucky State College. At Eastern since 1950.

WILSON L. SEAY, B.A., M.A. **Assistant Professor of English**
B.A., Lynchburg College; M.A., Appalachian State Teachers College; additional graduate work, University of Iowa. At Eastern since 1962.

BLANCHE S. SEEVERS, B.Mus., B.A., M.Mus. **Associate Professor of Music**
B.Mus., B.A., University of Kansas; M.Mus., Northwestern University; additional graduate work, Columbia University; private study, Christiansen Choral School, New York City College. At Eastern since 1938.

WILLIAM E. SEXTON, B.S., M.Ed. **Assistant Professor of Industrial Arts**
B.S., Eastern Kentucky State College; M.Ed., University of Illinois. At Eastern since 1957.

DONALD SHADOAN, B.S., M.S. Assistant Professor of Business
B.S., M.S., University of Kentucky; additional graduate study,
University of Kentucky. At Eastern since 1962.

B. W. SHAW, B.S., M.Ed. Associate Professor of Industrial Arts
B.S., Northwestern State College; M.Ed., University of Missouri;
additional graduate work, University of Missouri. At Eastern since
1963.

DANIEL N. SHINDELBOWER, A.B., M.A. Associate Professor of Art
A.B., M.A., University of Kentucky, additional graduate work,
University of Kentucky. At Eastern since 1961.

EVELYN SLATER, B.S., M.S. Associate Professor of Home Economics
B.S., M.S., University of Kentucky; additional graduate work,
Columbia University. At Eastern since 1939.

JAMES G. SNOWDEN, A.B., M.A., Ed.D. Professor of Psychology
A.B., M.A., University of Kentucky; Ed.D., Indiana University.
At Eastern since 1954.

WILLIAM A. SPRAGUE, A.B., M.A., Ed.D. Associate Professor of Psychology
A.B., M.A., Colorado State College of Education; Ed.D., Uni-
versity of Denver. At Eastern since 1955.

ALAN P. STAPLES, B.Mus., M.Mus. Instructor of Music
B.Mus., M.Mus., Eastman School of Music, University of Roch-
ester; additional graduate work, Eastman School of Music, Uni-
versity of Rochester. At Eastern since 1961.

ANNA M. STARK, A.B., M.A. Instructor of Elementary Education
Supervising Teacher, Laboratory School
A.B., University of Kentucky; M.A., Teachers College, Colum-
bia University; additional graduate work, University of Kentucky.
At Eastern since 1963.

ROBERT E. STEBBINS, B.A., B.D., M.A. Assistant Professor of History
B.A., Bowling Green State University; B.D., Yale University;
M.A., University of Minnesota; additional graduate work, Univer-
sity of Minnesota. At Eastern since 1963.

SYDNEY J. STEPHENS, B.S., M.S. Assistant Professor of Mathematics
B.S., Eastern Kentucky State College; M.S., University of Illi-
nois; additional graduate work, University of Wyoming, University
of Illinois. At Eastern since 1956.

JAMES WILLIAM STOCKER, B.S., M.S. Associate Professor of Agriculture
B.S., Eastern Kentucky State College; M.S., University of Ken-
tucky. At Eastern since 1946.

WILLARD E. SWINFORD, B.S., M.A. Assistant Professor of Industrial Arts
B.S., M.A., Eastern Kentucky State College. At Eastern since
1955.

FRED W. TANNER, A.B., M.A., Ed.D. Assistant Professor of Education
A.B., M.A., Morehead State College; Ed.D., Indiana University.
At Eastern since 1963.

JACKSON A. TAYLOR, B.S., M.A. Assistant Professor of Agriculture
B.S., M.S., University of Kentucky. At Eastern since 1954.

RONALD S. TAYLOR, B.A., M.S. Assistant Professor of Geology and Geography
B.A. Denison University; M.S., University of Kentucky; additional graduate work, University of Colorado. At Eastern since 1960.

MORRIS D. TAYLOR, B.S., M.S. Assistant Professor of Chemistry
B.S., M.S., Purdue University; additional graduate work, Purdue University. At Eastern since 1963.

JAMES W. THURMAN, B.S., M.A. Assistant Professor of Health and Physical
Education; Director of Alumni Affairs
B.S., M.A., Eastern Kentucky State College. At Eastern since 1962.

JUANITA TODD, A.B., M.A. Assistant Professor of Art
A.B., Georgetown College; M.A., University of Kentucky; additional graduate work, Indiana University, University of Kentucky. At Eastern since 1960.

G. R. TREDWAY, B.S., M.A., Ph.D. Assistant Professor of History
B.S., M.A., Ph.D., Indiana University. At Eastern since 1963.

KENNETH D. TUNNELL, A.B., M.A. Instructor of Business
A.B., Carson-Newman College; Student, Union College; M.A., Eastern Kentucky State College. At Eastern since 1962.

MILDRED I. TURNEY, B.S., M.Ed. Professor of Home Economics
B.S., University of Connecticut; M.Ed., Pennsylvania State University; additional graduate work, Teachers College, Columbia University. At Eastern since 1963.

CHARLES F. VAN CLEVE, A.B., A.M., Ph.D. Professor of English
A.B., Ohio Wesleyan University; A.M., University of Chicago; Ph.D., George Peabody College for Teachers. At Eastern since 1962.

CHARLES W. VAN CLEVE, B.A., M.A., B.S., LL.B., Ph.D. Assistant Professor of Political Science
B.A., M.A., University of Chicago; B.S., Ball State Teachers College; LL.B., Indiana University; Ph.D., University of Texas. At Eastern since 1962.

JAMES E. VAN PEURSEM, A.B., B.Sch.M., M.A. Professor of Music
A.B., Morningside College; B.Sch.M., Oberlin College; M.A., New York University. At Eastern since 1929.

JOHN L. VICKERS, B.S., M.A. Associate Professor of Education
Executive Assistant
B.S., Western Kentucky State College; M.A., University of Kentucky; additional graduate work, University of Kentucky. At Eastern since 1960.

PATRICIA A. WALKER, B.A., M.S. Instructor of Elementary Education
Supervising Teacher, Laboratory School
B.A., Berea College; M.S., Oregon State University. At Eastern since 1963.

RALPH W. WHALIN, B.S., M.Ed.

Professor of Industrial Arts

B.S., Western Kentucky State College; M.Ed., University of Missouri, additional graduate work, University of Kentucky. At Eastern since 1937.

THELMA W. WHITLOCK, B.S., M.A.

Assistant Professor of Science
Supervising Teacher, Laboratory School

B.S., Eastern Kentucky State College; graduate work, University of Kentucky; M.A., Eastern Kentucky State College. At Eastern since 1957.

A. L. WHITT, B.S., M.S.

Associate Professor of Biology

B.S., Western Kentucky State College; M.S., University of Kentucky; additional graduate work, Vanderbilt University. At Eastern since 1948.

ARTHUR L. WICKERSHAM, B.S., M.A.

Associate Professor of Mathematics;
Supervising Teacher, Laboratory School

B.S., M.A., Eastern Kentucky State College; additional graduate work, University of Kentucky. At Eastern since 1946.

LYLE C. WOLFROM, B.Mus., M.Mus.

Assistant Professor of Music

B.Mus., University of Kansas; M.Mus., Indiana University. At Eastern since 1960.

CARL N. WOODS, A.B., M.A.,

Assistant Professor of Business

Student, Caney Junior College; A.B., Morehead State College; M.A., George Peabody College for Teachers; additional graduate work, George Peabody College for Teachers. At Eastern since 1961.

LEONARD F. WOOLUM, A.B., M.A., Ed.D.

Professor of Education

A.B., Union College; M.A., University of Kentucky; Ed.D., University of Maryland. At Eastern since 1957.

JOSEPH H. YOUNG, B.S., Ed.M., Ph.D.

Professor of Business

B.S., Indiana State College; Ed.M., Harvard University; Ph.D., Indiana University. At Eastern since 1963.

ORBA T. YOUNG, B.Ed., M.Ed.

Instructor of Elementary Education
Supervising Teacher, Laboratory School

B.Ed., M.Ed., University of Miami, Florida. At Eastern since 1963.

LIBRARY STAFF

RUTH LIGON ACKER, B.A., M.Ed.

Instructor

B.A., College of Wooster; M.Ed., University of Florida. At Eastern since 1963.

DICK M. ALLEN, A.B., M.A., B.S. in L.S.

Associate Professor

A.B., Eastern Kentucky State College; M.A., B.S. in Library Science, George Peabody College for Teachers. At Eastern since 1957.

KATHRYN P. DAVIS

Audio-Visual Aids

Student, Eastern Kentucky State College. At Eastern since 1954.

MARY S. DICKERSON, A.B., B.S. in L.S. **Instructor**
A.B., Centre College; B.S. in Library Science, University of Kentucky. At Eastern since 1948.

BETTY K. HATFIELD, A.B., M.S. in L.S. **Assistant Professor**
A.B., M.S. in L.S., University of Kentucky. At Eastern since 1963.

CAROLYN JONES, B.S., M.A. in L.S. **Instructor**
B.S., Mississippi State College for Women; M.A. in L.S., George Peabody College for Teachers. At Eastern since 1963.

LOUISE B. LYONS, B.S., M.A. **Instructor, Laboratory School**
B.S., M.A., East Tennessee State University; additional graduate work, Eastern Kentucky State College. At Eastern since 1961.

NANCY G. MILLER, B.A., M.A. **Assistant Professor**
B.A., M.A., George Peabody College for Teachers. At Eastern since 1930.

FRANK NUNEZ, A.B. **Instructor**
A.B., Eastern Kentucky State College; additional work, Sue Bennett Junior College. At Eastern since 1962.

NANCY R. PARK, A.B., Cert. in L.S. **Assistant Professor**
A.B., North Carolina Woman's College; Certificate in Library Science, George Peabody College for Teachers. At Eastern since 1954.

BETTY W. VAN CLEVE, A.B., Ph.B., M.A., Cert. in L.S. **Assistant Professor**
A.B., Western Michigan University; Ph.B., University of Chicago; M.A., George Peabody College for Teachers; Certificate in Library Science, Ball State College. At Eastern since 1962.

MILITARY SCIENCE STAFF

COLONEL JOE M. SANDERS, B.S., M.A. **Professor of Military Science**
B.S. Wofford College; M.A., Eastern Kentucky State College; graduate of: Rifle and Heavy Weapons Company Course, and Field Officer's Course, The Infantry School, Fort Benning, Georgia; the Command and General Staff College, Fort Leavenworth, Kansas; Army Service Forces Headquarters Staff School, Washington, D.C.; The Army Command Management School, Fort Belvoir, Virginia; Senior Officer Nuclear Weapons Employment Course, Fort Leavenworth, Kansas. At Eastern since September 1960.

MAJOR VIRGIL R. HUDNALL, B.S. **Associate Professor of Military Science**
B.S., Eastern Kentucky State College; graduate of: Field Artillery Officer's Basic Course, Fort Sill, Oklahoma; Anti Aircraft Artillery Officer's Basic Course, Fort Bliss, Texas; The Army General School, Photo-interpretation Section, Fort Riley, Kansas; The Artillery Officer's Advanced Course, Fort Sill, Oklahoma; Nuclear Weapons Employment Officer's Course and Refresher Courses. At Eastern since September 1962.

MAJOR DAVID C. HOLLIDAY, A.B. Associate Professor of Military Science

A.B., University of Kentucky; graduate work, Eastern Kentucky State College; graduate of: Associate Company Officer's Course, Provost Marshal School, Fort Gordon, Georgia; Associate Company Officer's Course, The Armor School, Fort Knox, Kentucky; The Armor Career Officer Course, The Armor School, Fort Knox, Kentucky. At Eastern since July 1962.

MAJOR JOHN A. SIMPSON, B.S. Associate Professor of Military Science

B.S., Clemson College; graduate work, Eastern Kentucky State College; graduate of: Armor Company Officer's Course, The Armor School, Fort Knox, Kentucky; Armor Officer's Advanced Course, The Armor School, Fort Knox, Kentucky. At Eastern since June 1961.

CAPTAIN ROY D. SIMS, B.S. Assistant Professor of Military Science

B.S., University of Kentucky; graduate work, Eastern Kentucky State College; graduate of: Basic Infantry Officer's Course, and Advanced Infantry Officer's Course, The Infantry School, Fort Benning, Georgia. At Eastern since January 1963.

CAPTAIN GLEN B. O'QUIN, B.S. Assistant Professor of Military Science

B.S., Mississippi State University; graduate work, Eastern Kentucky State College; graduate of: Associate Company Officers Course, Officers Communication Course, and Associate Infantry Officers Career Course, The Infantry School, Fort Benning, Georgia. At Eastern since July 1962.

CAPTAIN DAN H. MCLENDON, A.B. Assistant Professor of Military Science

A.B., Western Kentucky State College; graduate of: Basic Infantry Officers Course, Fort Benning, Georgia. At Eastern since May 1963.

CAPTAIN ROBERT I. FARRIS, B.S. Assistant Professor of Military Science

B.S., Middle Tennessee State College; graduate of: The Basic Infantry School, Fort Benning, Georgia; Airborne and Ranger Courses, The Infantry School, Fort Benning, Georgia. At Eastern since June 1962.

CAPTAIN RONALD L. COFFMAN, B.S. Assistant Professor of Military Science

B.S., Eastern Kentucky State College; graduate work, Eastern Kentucky State College; graduate of: Anti Aircraft Artillery Officers Basic Course, Fort Bliss, Texas; Mountain Instructors Course, Fort Greely, Alaska; Associate Field Artillery Battery Officers Course, Nuclear Projectile Assembly Course and The Artillery Officers Advance Course, Fort Sill, Oklahoma; The Airborne Course, Fort Benning, Georgia. At Eastern since January 1964.

CAPTAIN JOHN R. PIPKIN, A.B. Assistant Professor of Military Science

A.B., Washington and Lee University; graduate work, Eastern Kentucky State College; graduate of: Basic Officers Course, Fort Sill, Oklahoma; Battery Officers Course, Fort Bliss, Texas; Artillery Officers Career Course, Fort Sill, Oklahoma. At Eastern since September 1963.

- CAPTAIN JOHN B. SHARP, B.S.** Assistant Professor of Military Science
B.S., University of Wyoming; graduate work: Eastern Kentucky State College; graduate of: Infantry Officers Career Course, Fort Benning, Georgia. At Eastern since August 1962.
- SERGEANT-MAJOR RICHARD J. OLGUIN (E-8)** Instructor
Graduate of: Airborne Jump School, Airborne Glider School, Airborne Heavy Drop School, and Airborne Jumpmaster School, Fort Benning, Georgia. At Eastern since June 1962.
- SFC SIM S. STEVERSON (E-6)** Instructor
At Eastern since August 1962
- SSGT FREDERICK K. MYNATT (E-6)** Instructor
Rifle Team Coach
At Eastern since December 1962
- SSGT PHILIP A. HEBB, JR. (E-6)** Instructor
Training Aids NCO
At Eastern since November 1963.
- SSGT GEORGE N. WALKER (E-6)** Instructor
At Eastern since January 1964.
- SGT DAVID F. FREY (E-5)** Instructor
At Eastern since September 1963.
- SP-5 EDWIN L. CLAYCAMP (E-5)** Assistant Instructor and
NCOIC Arms Room
At Eastern since December 1962
- MSGT. LINVEL W. RAY (E-7)** Chief Clerk
At Eastern since December 1962.
- SFC VIRL F. AUTERSON (E-7)** Supply Sergeant
At Eastern since August 1961.
- VIRGINIA M. EVERSOLE** Secretary to Professor of Military Science
At Eastern since September 1956

RETIRED FACULTY

- W. F. O'DONNELL, A.B., A.M., LL.D., President, 1941-1960.
- ANNIE ALVIS, B.S., A.M., Assistant Professor of Elementary Education; Supervising Teacher, Laboratory School, 1932-1962.
- MARY C. BALDWIN, A.B., Assistant Professor of English, 1958-1964.
- MARY A. BARNHILL, A.B., M.A., LL.B., Associate Professor of English, 1931-1960.
- PEARL L. BUCHANAN, B.L., B.A., M.A., Associate Professor of English, 1923-1964.
- MARY K. BURRIER, B.S., M.S., Associate Professor of Home Economics, 1925-1963.
- EMMA YOUNG CASE, A.B., M.A., Associate Professor of Education, Dean of Women, 1925-1962.
- J. T. DORRIS, A.B., A.M., Ph.D., Lit.D., Professor of History and Government, 1926-1953.
- RICHARD A. EDWARDS, A.B., A.M., Professor of Education, 1918-1954.
- FRED A. ENGLE, SR., A.B., M.A., Ph.D., Professor of Education, 1928-1963.
- D. THOMAS FERRELL, A.B., A.M., M.A., Ph.D., Professor of Education, 1927-1964.
- EDITH G. FORD, B.C.S., A.B., M.A., Associate Professor of Commerce, 1927-1962.
- MAUDE GIBSON, Professor of Art, 1910-1942.
- SAUL HOUNCHELL, A.B., M.A., Ph.D., Professor of English, 1946-1962.
- RICHARD E. JAGGERS, A.B., M.A., Ph.D., Professor of Education, 1952-1961.
- CORA LEE, B.S., A.M., Assistant Professor of English; Supervising Teacher, Laboratory School, 1925-1961.
- MELVIN E. MATTOX, B.S., M.A., Professor of Education, Registrar, 1925-1962.
- ELLEN PUGH, A.B., A.M., Assistant Professor of Elementary Education; Supervising Teacher, Laboratory School, 1930-1957.
- ALMA REGENSTEIN, B.S., M.A., Assistant Professor of Home Economics; Supervising Teacher, Laboratory School, 1937-1962.

VIRGINIA F. STORY, B.S., M.A., Assistant Professor of Elementary Education; Supervising Teacher, Laboratory School, 1927-1962.

GLADYS P. TYNG, B.S., A.M., Professor of Education, 1920-1961.

BROWN E. TELFORD, B.S., Associate Professor of Music, 1917-1962.

SAMUEL WALKER, A.B., A.M., Ph.D., Assistant Professor of Mathematics, 1926-1956.

LUCILE R. WHITEHEAD, B.S., B.S. in L.S., Assistant Librarian, 1931-1961.

ELIZABETH WILSON, B.S., M.A., Assistant Professor of Elementary Education; Supervising Teacher, Laboratory School, 1928-1953.

GERMANIA WINGO, B.S., M.A., Assistant Professor of Elementary Education; Supervising Teacher, Laboratory School, 1920-1958.

RETIRED ADMINISTRATIVE STAFF

KATHLEEN BALES, Night Supervisor, Burnam Hall, 1950-1963.

KATHARINE CHENAULT, A.B., Hostess, Student Union Building, 1940-1959.

NELLIE HILL, Cafeteria Manager, 1943-1962.

EARL P. McCONNELL, Bookkeeper, 1923-1958.

AILEEN WICKERSHAM, Secretary, Business Office, 1954-63.

EUNICE WINGO, Assistant to the Dean of Women, 1925-1959.

ADMINISTRATIVE STAFF**OFFICE OF PRESIDENT**

ROBERT R. MARTIN, A.B., A.M., Ed.D.....	President
JOHN L. VICKERS, B.S., M.A.....	Executive Assistant to the President
J. C. POWELL, A.B., M.Ed.....	Secretary, Board of Regents

OFFICE OF ACADEMIC AFFAIRS

WILLIAM J. MOORE, A.B., M.A., Ph.D.....	Dean of College
Martha C. Barksdale, A.B.....	Secretary
J. DORLAND COATES, B.S., M.A., Ph.D.....	Associate Dean of Instruction for Teacher Education
Maxine Hackett, B.S., M.A.....	Secretary
CLYDE L. ORR, B.S., M.S., Ed.D.....	Associate Dean of Instruction for Graduate Studies
Gleneva F. Ault.....	Secretary
D. J. CARTY, B.S., M.A.....	Director of In-Service Education
Rachel N. Duncan.....	Secretary

OFFICE OF STUDENT AFFAIRS

HENRY G. MARTIN, A.B., M.A., Ed.D.....	Dean of Students
WILLIAM C. STOLL, B.A., M.S.	Director, Men's Residence Halls
Helen W. Perry.....	Administrative Assistant
Laura S. Ballard.....	Hostess, Student Union Building
LOIS COLLEY.....	Director, Division of Student Financial Aid
CHARLES F. AMBROSE, A.B., M.A., Ed.D.....	Dean of Admissions and Registrar
Louise Broadus, A.B.....	Recorder
Carrie Potts.....	Secretary
EVELYN A. BRADLEY, B.A., M.A.....	Dean of Women
Patsy R. Allison, B.S., M.S.,	Assistant to Dean of Women
HUGH MAHAFFEY, A.B., M.D.....	Physician
Ann Vescio, R.N.....	Nurse
Mary Shannon, R.N.....	Nurse

OFFICE OF BUSINESS AFFAIRS

J.C. POWELL, A.B., M.Ed.....	Dean of Business Affairs
G. M. BROCK.....	Comptroller
E. B. Noland.....	Cashier
BILLY A. GRUBBS.....	Director, Division of Purchases and Stores
JAMES T. MURPHY, B.S., M.A.....	Director, Division of Buildings and Grounds
LAWRENCE O. MARTIN, B.S., M.A.....	Director, Auxiliary Enterprises
FRED BALLOU.....	Bookstore Manager
WILLIAM F. SMITH, JR.....	Director, Division of Accounting and Budgetary Control
PHILIP B. CUZICK.....	Security Officer

OFFICE OF PUBLIC AFFAIRS

DONALD R. FELTNER, B.S., M.A.....	Coordinator of Public Affairs Director of Publicity and Publications
George U. Lyon.....	Photographer
HENRY F. PRYSE, B.A., M.A.....	Director of College-Community Relations Director of Placement Bureau
JAMES WYATT THURMAN, B.S., M.A.....	Director of Alumni Affairs Secretary of Alumni Association

CHAIRMEN OF DIVISIONS OF INSTRUCTION

Applied Arts.....	Ralph W. Whalin
Business.....	Joseph H. Young
Education and Psychology.....	Dixon A. Barr
Fine Arts	
Health, Physical Education, Recreation, Athletics and Military Science.....	
Language and Literature.....	P. M. Grise
Social Sciences.....	Kerney M. Adams
Sciences and Mathematics.....	Smith Park

HEADS OF DEPARTMENTS OF INSTRUCTION

Agriculture.....	James William Stocker
Art	Daniel N. Shindelbower
Biology.....	H. H. LaFuze
Business	Joseph H. Young
Chemistry.....	M. J. Cox
Education and Psychology.....	Dixon A. Barr
English	P. M. Grise
Foreign Languages.....	J. Hunter Peak
Geography and Geology.....	L. G. Kennamer
Health and Physical Education.....	C. T. Hughes
History, Anthropology, and Sociology.....	K. M. Adams
Home Economics	Mildred Turney
Industrial Arts.....	Ralph Whalin
Library Science.....	Dick M. Allen
Mathematics.....	Smith Park
Military Science.....	Colonel Joe M. Sanders
Music.....	
Physics.....	
Political Science.....	Frederic D. Ogden

ADMINISTRATIVE COMMITTEES

Alumni

J. W. Thurman, K. Adams, D. Allen, Baechtold, Berge, Carty, Coates, Creech, Daly, Darling, J. Davis, Dozier, Egnew, Engle, Jr., Flora, Franklin, French, Hale, Hibbard, Hilton, Hogg, Ingels, Jennings, Jones, Keen, Lewis, McGlasson, McHone, A. McIlvaine, Moberly, Moore, Mountz, Raleigh, M. Richards, R. Richards, Rigby, Salyer, Sexton, Stephens, Stocker, Swinford, White, Whitlock, Wickersham.

Athletics

S. Park, Ambrose, Barr, Coates, Powell, R. Richards, Stocker, Vickers, Whalin, Whitt, Woods. Presnell, ex-officio member.

Fine Arts

Shindelbower, Baker, Campbell, Gatwood, Koenigstein, McPherson, Oppelt, Seevers, Van Puersem, and two students from each class.

Heritage

M. Richards, Coates, Engle, Jr., Franklin, C. Gibson, Jennings, Lewis, McHone, Richardson, Sexton.

Museum

Dorris, Allen, Berge, Campbell, Gatwood, Keene, Kennamer, Lewis, Moberly, S. Park, Sprague, Stocker.

Social

Bradley, H. Chrisman, Gatwood, McHone, H. Martin, Moss, C. F. Van Cleve, Vickers, and two students from each class.

Student Loans, Scholarships, and Fellowships

R. Martin, Ambrose, Bradley, Coates, H. Martin, Moore, Orr, Powell.

Student Organizations and Activities

Grise, R. Chrisman, Darling, Egnew, LaFuze, McHone, G. Robinson, Seevers, Stocker, Whalin, C. Woods Bradley, H. Martin, ex-officio members.

Student Welfare

Whalin, Ambrose, Moss, H. Chrisman, Coates, G. McIlvaine, R. Richards, Shindelbower, Whitt. Bradley, H. Martin, ex-officio members.

INSTRUCTION COMMITTEES

General Education

Grise, Chairman: K. Adams, Herndon, J. Howard, Keene, McGlasson, McIlvaine, Mankin, Rowlett, Shindelbower.

Graduate Council

Orr, Chairman: K. Adams, Ambrose, Ankeney, Barr, Coates, P. M. Grise, Herndon, LaFuze, Park, Ross, Rowlett, Sprague, Tanner, Turney, Young.

Extended Services

Carty, Chairman: Ambrose, Arterberry, Barr, Feltner, R. Grise, Hilton, Patterson, Pryse, Scott, Slater, Thurman, Vickers.

Teacher Education

Coates, Chairman: R. D. Acker, K. Adams, Ambrose, Barr, Darling, Grise, W. Marcum, Orr, Rowlett.

Curriculum Committee

Moore, Chairman: K. Adams, Barr, Grise, Park, Shindelbower, Whalin, Young.

Professional Growth and Faculty Welfare

Park, Chairman: Dozier, Herndon, Hilton, C. Lewis, McHone, Moss, Myers, G. Owens, Powell, Tanner, Woolum.

Library Committee

Allen, Chairman: Hale, Herndon, Hood, Keen, LaFuze, C. Lewis, Mangus, Mankin, Ogden, S. Park, Rhodes, M. Richards, E. Richardson, Stocker, Van Peursem.

Improvement of Instruction

K. Adams, Chairman: Ankeney, Barr, H. Chrisman, J. H. Davis, French, A. Howard, LaFuze, Ogden, R. Richards, Snowden, Sprague, Van Cleve, Sr., Van Peursem.

Studies and Research

Rowlett, Ambrose, Black, Buchholz, Cox, Engle, Jr., Kennamer, Moss, Parkhurst, Powell, Rhodes, Salyer, Shadoan, Swinford.

Radio, Television, and Audio-Visual Committee

J. Howard, Chairman: Alexander, Basye, R. Chrisman, Hendrickson, R. Jordan, Keene, Larence, Oppelt, Patrick, Robinson, Ross, Swinford.

Council on Instruction

Dean of Instruction is ex-officio chairman, others are: the Associate Dean of Instruction in charge of teacher education, the Associate Dean of Instruction in charge of graduate studies, Director of In-Service Education, the Librarian, Division Chairmen, and the Heads of Departments.

INSTRUCTION COMMITTEES

General Education

Grise, Chairman: K. Adams, Herndon, J. Howard, Keene, McGlasson, McIlvaine, Mankin, Rowlett, Shindelbower.

Graduate Council

Orr, Chairman: K. Adams, Ambrose, Ankeney, Barr, Coates, P. M. Grise, Herndon, LaFuze, Park, Ross, Rowlett, Sprague, Tanner, Turney, Young.

Extended Services

Carty, Chairman: Ambrose, Arterberry, Barr, Feltner, R. Grise, Hilton, Patterson, Pryse, Scott, Slater, Thurman, Vickers.

Teacher Education

Coates, Chairman: R. D. Acker, K. Adams, Ambrose, Barr, Darling, Grise, W. Marcum, Orr, Rowlett.

Curriculum Committee

Moore, Chairman: K. Adams, Barr, Grise, Park, Shindelbower. Whalin, Young.

Professional Growth and Faculty Welfare

Park, Chairman: Dozier, Herndon, Hilton, C. Lewis, McHone, Moss, Myers, G. Owens, Powell, Tanner, Woolum.

Library Committee

Allen, Chairman: Hale, Herndon, Hood, Keen, LaFuze, C. Lewis, Mangus, Mankin, Ogden, S. Park, Rhodes, M. Richards, E. Richardson, Stocker, Van Peursem.

Improvement of Instruction

K. Adams, Chairman: Ankeney, Barr, H. Chrisman, J. H. Davis, French, A. Howard, LaFuze, Ogden, R. Richards, Snowden, Sprague, Van Cleve, Sr., Van Peursem.

Studies and Research

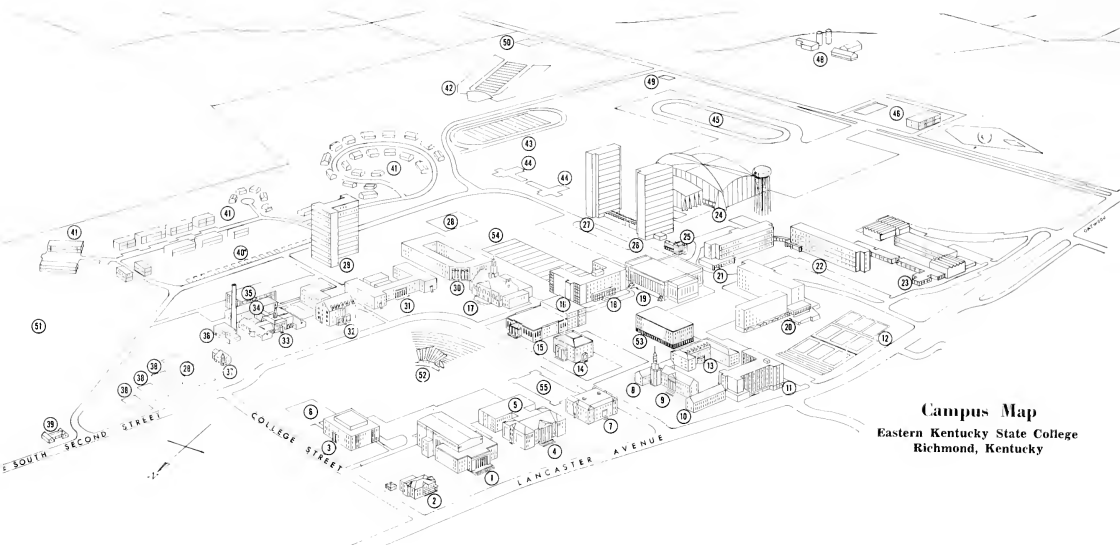
Rowlett, Ambrose, Black, Buchholz, Cox, Engle, Jr., Kennamer, Moss, Parkhurst, Powell, Rhodes, Salyer, Shadoan, Swinford.

Radio, Television, and Audio-Visual Committee

J. Howard, Chairman: Alexander, Basye, R. Chrisman, Hendrickson, R. Jordan, Keene, Larance, Oppelt, Patrick, Robinson, Ross, Swinford.

Council on Instruction

Dean of Instruction is ex-officio chairman, others are: the Associate Dean of Instruction in charge of teacher education, the Associate Dean of Instruction in charge of graduate studies, Director of In-Service Education, the Librarian, Division Chairmen, and the Heads of Departments.



Campus Map
Eastern Kentucky State College
Richmond, Kentucky

- | | | |
|--------------------------------------|--------------------------------------|--|
| 1. Coates Administration Building | 20. Martin Hall | 38. Site, Religious Activities Center |
| 2. Blanton House | 21. O'Donnell Hall | 39. Baptist Student Union |
| 3. Foster Music Building | 22. Mattox Hall | 40. Trailer Park |
| 4. Roark Building | 23. Donovan Building | 41. Brockton (Married Students' Hous'g.) |
| 5. Memorial Science Building | 24. Alumni Coliseum | 42. Site, Proposed Football Stadium |
| 6. Site, Proposed Fine Arts Building | 25. Stetland Hall | 43. Practice Football Field and Track |
| 7. Cammack Building | 26. Todd Hall | 44. Site, Proposed Men's Dormitory |
| 8. Miller Hall | 27. Dupree Hall | 45. All-weather Athletic Field & Park'g. |
| 9. Beckham Hall | 28. Site, Proposed Women's Dormitory | 46. Faculty Housing |
| 10. McCreary Hall | 29. Proposed Women's Dormitory | 47. "Turkey" Hughes Field |
| 11. Earl Combs Hall | 30. Case Hall | 48. Stetland Dairy Center |
| 12. Tennis Courts | 31. Burnam Hall | 49. Site, Proposed State Police Barracks |
| 13. Keith Hall | 32. Sullivan Hall | 50. Site, Proposed Nat'l Guard Armory |
| 14. University Building | 33. Fitzpatrick Arts Building | 51. Site, Proposed City Hospital |
| 15. Crabbe Library | 34. Gibson Addition | 52. Van Peursem Music Pavilion |
| 16. Library Addition | 35. Ault Service Building | 53. Classroom Building |
| 17. Keen Johnson Student Union Bldg. | 36. Boiler Plant | 54. Proposed Women's Athletic Field |
| 18. McGregor Hall | 37. Turley House | 55. Site, Proposed Science Building |
| 19. Weaver Health Building | | |

INDEX

Administrative Officers	211	Honorary Societies	31
Administrative Staff	235	Housing, Accommodations	26
Admission, Graduate	61	Industrial Arts	145
Admission, Undergraduate	41	Information, General	2
Advanced Standing	41	Laboratory Fees	25
Agriculture	69	Laboratory School	58
Alumni Association	34	Latin	154
Anthropology	202	Library Staff	229
Art	73	Library Science	156
Assembly	33	Living Accommodations	26
Athletics	31	Loan Funds	28
Awards	34	Location of College	9
Baccalaureate Degrees	49	Majors and Minors	65
Band	32	Masters of Arts Degree	61
Biology	77	Mathematics and Astronomy	158
Board of Regents	209	Medical Examinations	30
Board	28	Medical Technology	54
Book Store	21	Military Science	164
Buildings and Facilities	13	Music	170
Bureau of Appointments	34	Non-Residence Fees	25
Business, Courses in	84	Numbering of Courses	42
Cafeteria	28	Officers of Administration	211
Calendar	4	Officers of Board of Regents	211
Campus	13	Orchestra	32
Certificates	49	Organizations, Student	32
Chemistry	99	Personnel Services	30
Choir	32	Physical Education	182
Classification of Students	42	Physics	188
Clubs	31	Placement Bureau	34
Commencement	45	Political Science	193
Correspondence Courses	59	Post Office	26
Counseling	30	Pre-Dental Curriculum	53
Courses of Instruction	67	Pre-Engineering Curriculum	54
Course Load	43	Pre-Forestry Curriculum	57
Course Numbers	42	Pre-Law Curriculum	56
Curricula, Pre-Professional	52	Pre-Medical Curriculum	53
Curricula, Teacher Education	49	Pre-Veterinary Medicine	55
Degrees	49	Probation	43
Departmental Clubs	31	Psychology	197
Dormitories	16	Publications	32
Dramatics	122	Purpose of College	11
Earth Science	128	Quality Points	42
Economics	96	Regents, Board of	209
Education, Courses in	103	Religious Activities	32
Employment, Student	29	Residence Halls	16
English	115	Residence Requirements	44
Entrance Requirements	41	R.O.T.C. Staff	230
Executive Committee	209	Schedule Changes	43
Expenses and Fees	25	Scholarships and Awards	33
Extension Division	59	Scholastic Average	43
Faculty	212	Science, Non-Specialized	198
Faculty Emeriti	233	Secretarial Program	89
Fees and Expenses	25	Semester System	42
Foreign Languages	124	Social Science	200
French	125	Social Work	55
Geography and Geology	126	Sociology	203
German	133	Spanish	204
Grading System	42	Standard of Work	43
Graduate Division	61	Student Employment	29
Graduation Requirements	44	Student Load	43
Guidance and Personnel	30	Student Organizations	31
Health, Courses in	134	Summer Session	25
Health Services	30	Transcripts of Credits	41
History of the College	10	Veterans Administration	41
History, Courses in	135	Withdrawal, from the College	44
Home Economics	141	Withdrawal, from Courses	43

